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JANUARY, 1948

Refrigeration

**AIR CONDITIONING
EQUIPMENT**

INDUSTRY

MERCHANDISING * INSTALLATION * MAINTENANCE



New "270"

COMMERCIAL CONT.

**YOUR
BIGGEST
DATE IN '48!**

*5th
All-Industry
Show*

Jan.
26-29
**CLEVELAND
PUBLIC
AUDITORIUM**

**HERE'S
YOUR KEY
to the
SHOW**

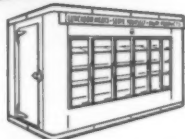
SPECIAL ALL-INDUSTRY SHOW ISSUE

Servicing IS A CINCH...

WITH WEBER EQUIPMENT!



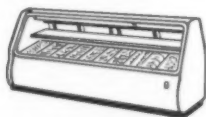
FROZEN
LOW TEMPERATURE
SELF-SERVICE CASES



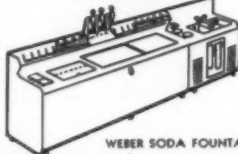
WEBER REACH-IN, WALK-IN BOXES



WEBER ROLL-A-DOOR FROZEN FOOD
AND ICE CREAM CABINETS



WEBER DISPLAY MASTER MEAT CASES



WEBER SODA FOUNTAINS

... that's why Refrigeration Service Organizations everywhere find Weber Servicing Contracts are a money-making proposition, for service is made easy and customers are kept happy by Weber developments in design and refrigeration engineering, by the high quality of Weber materials and workmanship... and there's Weber equipment in every retail field, fine, modern equipment that requires but simple servicing to keep it in perfect running order. You, too, will find that service is a cinch, and profitable, with Weber Equipment... the most complete line of refrigerated display equipment in the world!

INVESTIGATE... AND YOU'LL INVEST IN WEBER

WEBER



SHOWCASE & FIXTURE CO., INC.

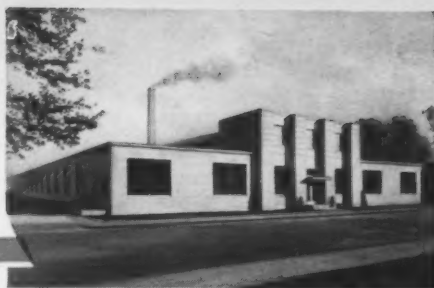
5700 AVALON BOULEVARD, LOS ANGELES 54, CALIFORNIA

Los Angeles • El Paso • Sales Offices In All Principal Cities
Warehouse Stocks in Key Metropolitan Areas

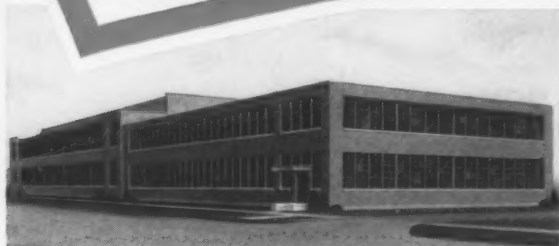


ALL WEBER SELF-SERVICE CASES ARE PROTECTED BY U. S. PATENT NO. 2,043,448. EVERY ROLL-A-DOOR IS FULLY PROTECTED BY U. S. PATENT NOS. 2,338,511 AND 2,376,835.

KNOW **PAR** CONDENSING UNITS



MARION, INDIANA



TOLEDO, OHIO



ANDERSON, INDIANA



DEFIANCE, OHIO



ANDERSON, INDIANA

PAR—Condensing Unit line sold exclusively through Franchised Refrigeration Equipment Wholesalers!



"See the Par closer-coupled heavy duty units at the All-Industry Exposition, Booth 102-201."



These five modern plants, equipped with complete engineering departments and latest type production machines, comprise the manufacturing facilities of the Lynch Corporation, manufacturers of Par Condensing Units. Our many years of experience in the development and manufacture of precision machinery is transmitted into every Par unit. The wide range of models and sizes provides for tailored installations . . . a proper model and proper size to fit every application . . . air-cooled and water-cooled . . . close-coupled and heavy-duty type . . . and sizes from $\frac{1}{8}$ h.p. to 5 h.p. Compare before you buy, for by comparison—you'll buy Par. See your Par Wholesaler or write for Par Catalog R-98.

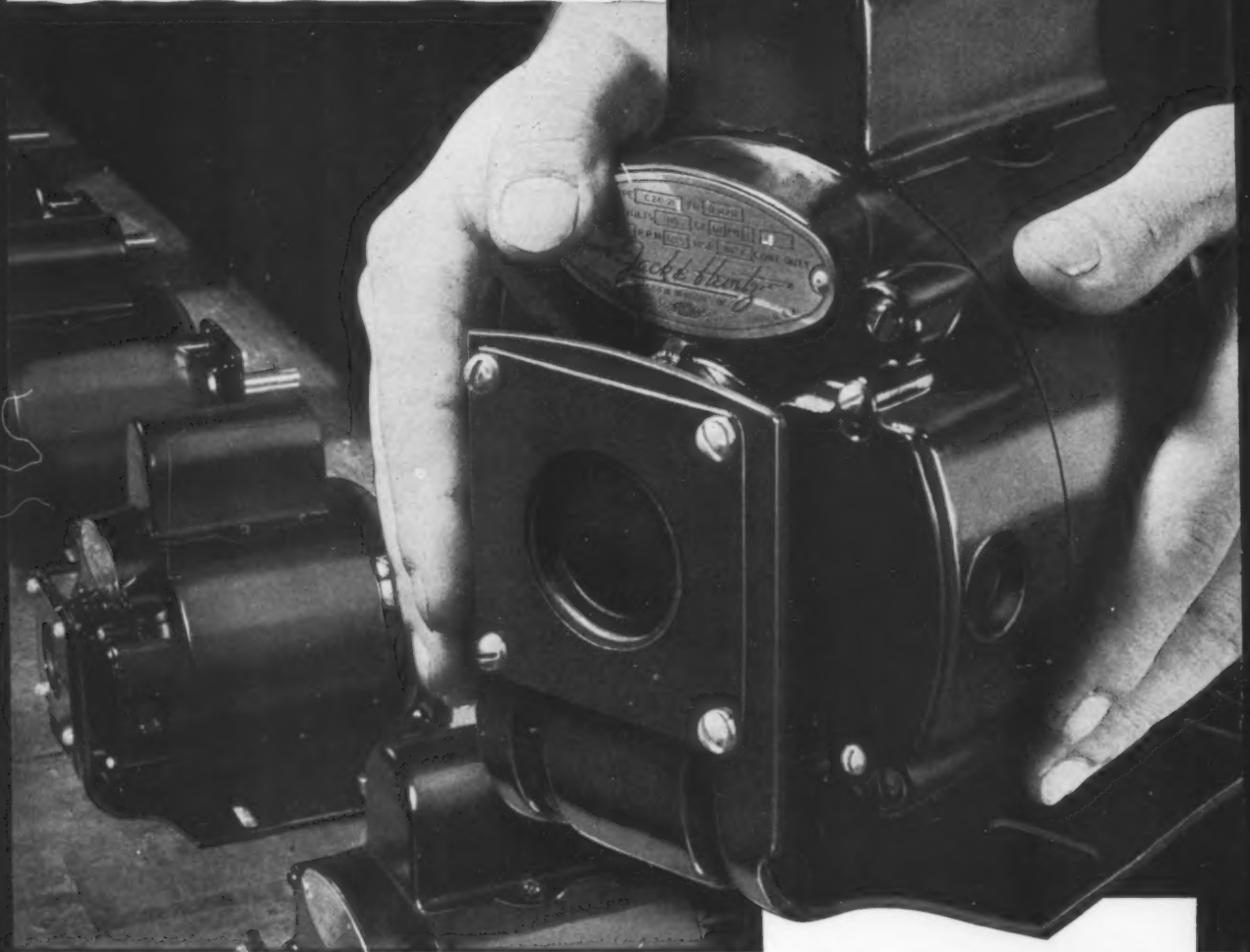
*By Comparison — You'll Buy **PAR***

LYNCH CORPORATION

Par Compressor Division

TOLEDO 1, OHIO U.S.A.

The first million



Electric Motors



Ball Bearings



Refrigeration Compressors



Siemens Magnets

One million motors have rolled off the mass precision production lines of Jack & Heintz Plant No. 7 since May, 1946 when this Company introduced its fractional horsepower motors. And, with output and acceptance steadily increasing, J & H has become a dominant force in the electric motor field.

Users report that these motors are giving unsurpassed performance . . . powering many types and makes of home appliances, office machines, tools and manufacturing equipment in practically every industry.

This typifies Jack & Heintz progress in all fields . . . to give you better products.

Better products through

JACK & HEINTZ

Mass Precision



Aircraft Starters



Aircraft Generators



Aircraft Inverters

JACK & HEINTZ PRECISION INDUSTRIES, INC., Cleveland 1, Ohio

THE Refrigeration INDUSTRY

VOLUME 5, NO. 1

THIS MAGAZINE has no
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THE COVER . . . Typical of the sights and scenes which will greet you at the 5th All-Industry Refrigeration & Air Conditioning Exposition is this montage of random shots from the 4th All-Industry Show in October, 1946. (Photos by Austin Jones, Kerotest Mfg. Co.)

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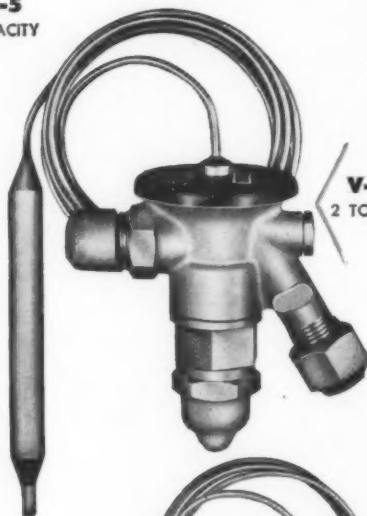
Acceptance under the Act of June 5, 1934, at Milwaukee, Wisconsin, authorized March 26, 1947.

Unsurpassed THERMAL EXPANSION VALVES

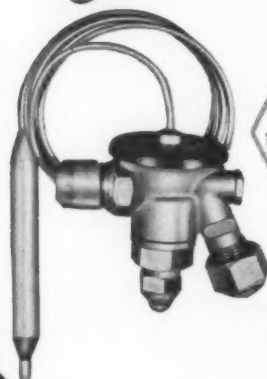
1/2 TO 5 TON CAPACITY



V-200-5
5 TON CAPACITY



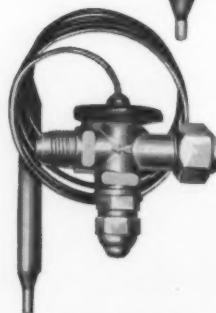
V-200-2
2 TON CAPACITY



V-200-1
1 TON CAPACITY

High or Low Temperature Applications
Freon, Methyl-Chloride, Sulphur Dioxide

Request colorful Refrigeration Catalog No. 200-1 illustrating complete line of Thermal Expansion, Magnetic Stop, Ammonia Suction Stop Valves and Strainers.



V-200-1/2
1/2 TON CAPACITY



GENERAL CONTROLS

Manufacturers of Automatic Pressure, Temperature and Flow Controls.

FACTORY BRANCHES: BIRMINGHAM (3), BOSTON (16), CHICAGO (5), CLEVELAND (15), DALLAS (2), DENVER (10), DETROIT (8), GLENDALE (1), HOUSTON(2), KANSAS CITY (2), NEW YORK (17), PHILADELPHIA (40), PITTSBURGH (22), SAN FRANCISCO (7), SEATTLE (1). DISTRIBUTORS IN PRINCIPAL CITIES.

Mark!

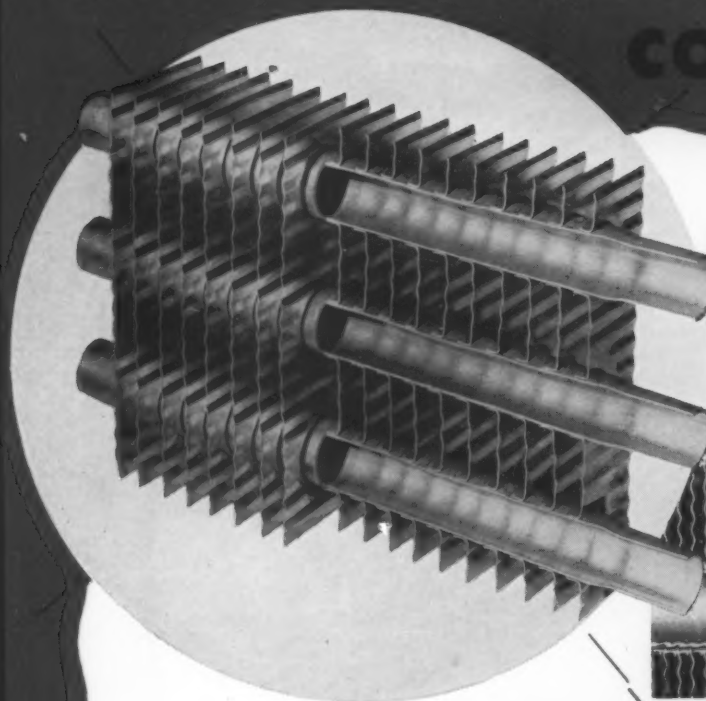


**MAKE THE SEASONS
COME TO YOU**

IT'S THE SIGN OF

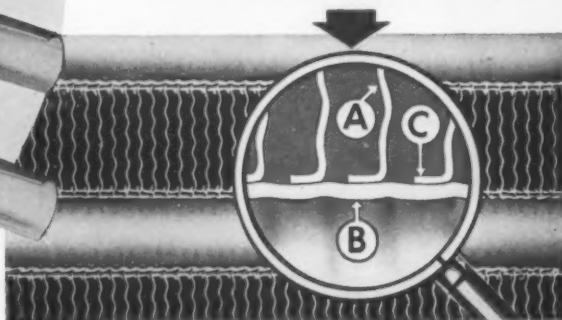
The Real *McQuay*

Only McQuay gives you RIPPLE FIN, RIPPLE TUBE CONSTRUCTION



Use of hydraulic expansion to lock tubes to fins is a McQuay feature.

Ripple fins **A**, rippled tubes **B**, and wide spun fin collars **C**, are found only in McQuay coils.



Basic in the entire McQuay line is the Ripple-Fin, Ripple-Tube coil. Hydraulic expansion methods, pioneered by McQuay, allow production of a rigid, vibration-free coil section that offers maximum heat transfer efficiency under all operating conditions. Heavy industrial usage has proved the superiority of Ripple-Fin construction in countless heat transfer applications.

Permanent contact, a "must" for heat transfer efficiency, is assured three ways in McQuay coil construction. First, aluminum fins are permanently locked to electro-tin coated copper tubes by hydraulic pressure alone, without use of any low conductivity bonding metal. Second, wide spun-fin

collars provide greater area of contact between primary and secondary surfaces for rapid low-loss heat transfer. Third, fin collars smoothed by the spinning action of the collar-forming tool offer an ideal contact surface, increase actual metal-to-metal contact between fin and tube.

Hydraulically expanded tubes with resulting rippled inner surface assure proper turbulence of the refrigerant—maximum refrigerating effect. Select high efficiency for *your* cooling operation with light-weight, durable Ripple-Fin coils. See your refrigeration wholesaler today, or write directly to McQuay, Inc., 1643 Broadway Street Northeast, Minneapolis 13, Minnesota.

McQuay INC.

1643 Broadway Street N. E. • Minneapolis 13, Minnesota

13, Minnesota

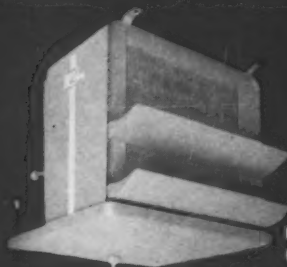


IN HEATING, AIR CONDITIONING, AND REFRIGERATION "IT'S THE REAL McQUAY"

COOLING UNITS



PANEL TYPE CHILLATOR



NORMAL PURPOSE
UNIT COOLER



CEILING TYPE CHILLATOR

McQuay Chillators and Normal Purpose Unit Coolers provide compact "low side" equipment for reach-in, back bars, wall-mounted beverage coolers. Designed for quiet, vibration-free operation, these units feature disformed cabinets with

backed-up surfaces. Super strong, low-shrink, rugged construction throughout. Easy to install—easy to service. McQuay Coolers bring the advantages of Single-Fin coil construction to small space cooling applications.

LOW TEMPERATURE UNITS



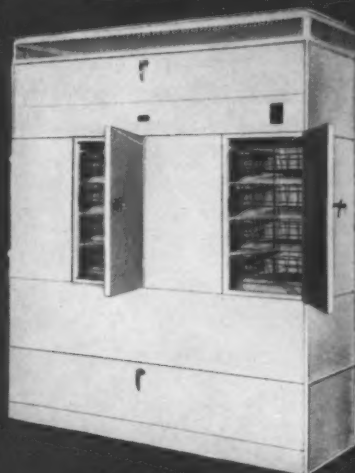
L SERIES ZEROPAK

A wide variety of freezing operations are handled by McQuay Zeropak units and the versatile Dual Purpose Unit Cooler. X series Zeropak units combine high velocity spray freezing with high humidity locker cooling. Developed primarily for locker plant applications, both X



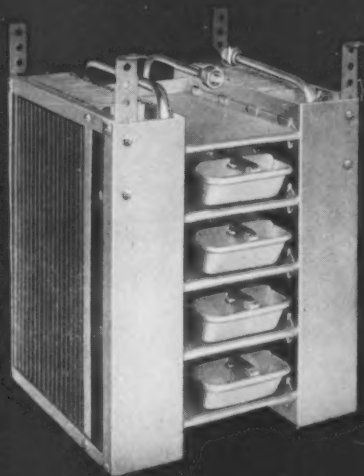
DUAL PURPOSE UNIT COOLER

and L series Zeropaks are especially adaptable for all types of low temperature requirements. McQuay Dual Purpose Unit Coolers feature water defrosting, are engineered to match freezing or cooling specifications ranging from -10°F . to 20°F .



X SERIES ZEROPAK

SPECIAL APPLICATIONS



QUICK RELEASE
ICE CUBE MAKER



DISPLAY CASE COIL

Multi-louvre coils are designed to meet special refrigerating applications where high moisture content must be preserved. Coupling slow, gravity air movement with high humidity cooling, Multi-louvre coils help keep moisture and flavor intact. McQuay display case



MULTI-LOUVRE COIL

coils also play an important part in food preservation and are available in practically limitless sizes and capacities. McQuay Ice Cube Makers featuring fast freeze, quick release are produced in a number of models for reach-in and back bar installations.



Henry back pressure regulator...

*for accurate
temperature control!*

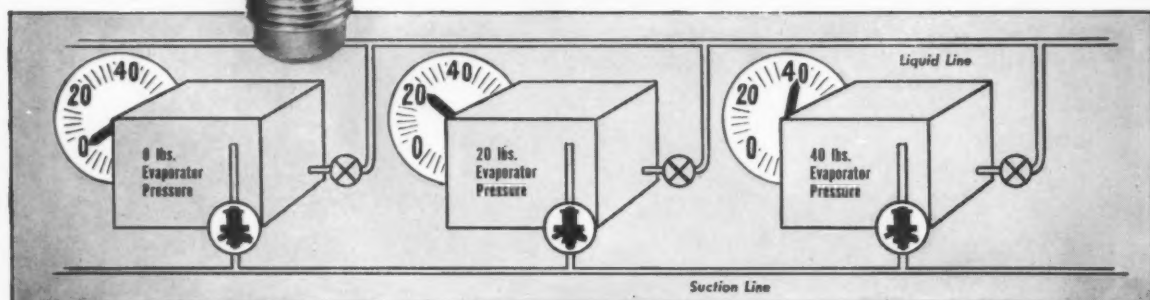


Illustration shows how Henry Back Pressure Regulators may be installed providing multiple temperature control by merely setting valve to hold desired evaporator pressure.

By controlling the pressure of the refrigerant in an evaporator, the use of Henry Back Pressure Regulators permits multiple temperature control on two or more refrigerated fixtures regardless of suction line pressures. Used on water or beverage coolers, they prevent freeze-ups. They operate on the principle that the temperature of the refrigerant within a vessel varies with the pressure. Therefore, regulating the pressure in an evaporator provides a positive temperature control of the refrigerant. They are recommended for Freon and Methyl Chloride installations within a range of 0 to 40 lbs. evaporator pressures.

Henry Back Pressure Regulators have forged brass bodies with stainless steel diaphragms. A gauge connection shut-off valve permits making accurate pressure setting at time of installation. Valve is set by turning screw controlling spring tension on diaphragm. The adjustment seal cap insures protection against leaks or freezing. Available in angle pattern with $\frac{1}{2}$ " and $\frac{3}{8}$ " flare or solder connections as shown. Also available with straight-thru connections on special order. Complete literature available upon request.

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HENRY VALVE COMPANY

Control Devices, Valves, Driers, Strainers and Accessories for Refrigeration and Air Conditioning and Industrial Applications

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THE REFRIGERATION INDUSTRY



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Full Deposit Refunded Immediately

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Urge every one of your customers to do the same. Urge them to return cylinders the same day they become empty. It's important . . . the need is an urgent one. Cylinders are needed NOW to continue filling orders. **RETURN EVERY CYLINDER THE DAY IT'S EMPTY.** Kinetic Chemicals, Inc., Tenth and Market Streets, Wilmington 98, Delaware.

SHIP EMPTY "FREON" CYLINDERS VIA FREIGHT COLLECT TO:

Kinetic Chemicals, Inc., Carney's Point, New Jersey
(Designate P.R.S.L. as delivery carrier.)



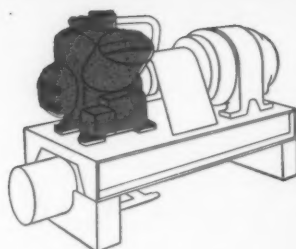
Plan now to visit the "Freon" exhibit—
Booth 414—at the All-Industry Exposition,
Cleveland Auditorium, Cleveland, Ohio
—January 26-29, 1948



CARRIER BLAZES ANOTHER TRAIL

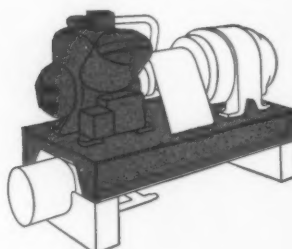
1

You get exactly the right compressor to fit your needs—from 5 to 100 horsepower



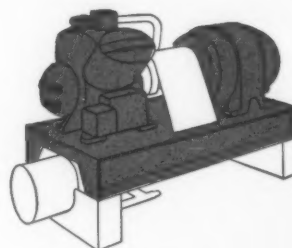
2

You get a special universal type steel base where the installation requires it



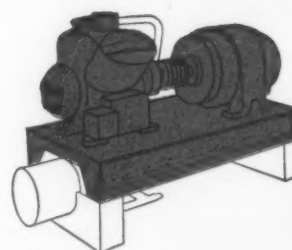
3

You get a motor of exactly the right horsepower—any make, any speed and any voltage



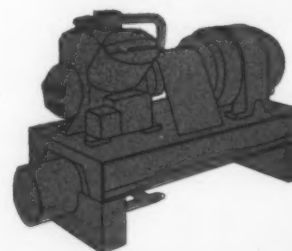
4

You get a coupling for direct drive or flywheel for V-belt drive, whichever you prefer



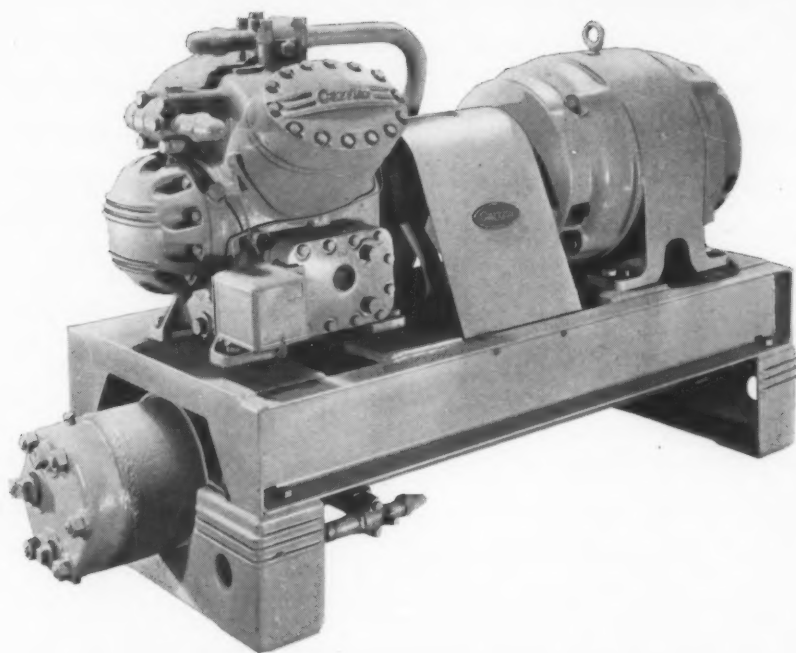
5

You get a medium or low temperature condenser—whichever best fits your requirements



the greatest refrigeration
advance in a decade . . .
CUSTOMIZED*
COMPRESSORS

* custom-tailored to the exact requirements of the job!



- Now you actually *match* refrigeration to your needs!
- Obtain the *perfect unit* from over 1000 combinations!
- Buy and pay for *only* the capacity the job requires!
- Save on first cost and *save again* on operating charges!

Plus this amazing new flexibility, you get the many tested features that make Carrier refrigeration the standard of quiet, dependable, economical service . . . automatic load-free starting . . . *built-in* capacity control . . . exclusive vapor-

cushioned valves . . . precision-type removable bearings . . . magnetic oil-drain plugs. Write for Catalog 5FH1 — "5 to 100 Horsepower Refrigerating Compressors and Condensers." Carrier Corporation, Syracuse, New York.



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INDUSTRIAL HEATING

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Farm and Home Freezer Manufacturers Association

National Association of Practical Refrigerating Engineers

National Association of Refrigeration Contractors

National Commercial Refrigerator Sales Association

Refrigeration Equipment Manufacturers Association

Refrigeration Equipment Wholesalers Association

Refrigeration Service Engineers Society

Soda Fountain Manufacturers Association

—And Our Associates in The Refrigeration And Air Conditioning Industry—

To The 5th All-Industry Refrigeration And Air Conditioning Exposition

Cleveland Public Auditorium January 26-29, 1948

Visit Detroit Lubricator Company Booths No. 503 & 603

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DIVISION OF AMERICAN RADIATOR & STANDARD SANITARY CORPORATION

DETROIT LUBRICATOR COMPANY

General Offices: 5900 TRUMBULL AVENUE, DETROIT 8, MICHIGAN

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**"DETROIT" HEATING AND REFRIGERATION CONTROLS • ENGINE SAFETY CONTROLS
FLOAT VALVES AND OIL BURNER ACCESSORIES • "DETROIT" EXPANSION VALVES
AND REFRIGERATION ACCESSORIES • STATIONARY AND LOCOMOTIVE LUBRICATORS**

2537



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To Control
PRESSURE

THE
HARVEY

METAL CORPORATION

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FORGINGS IN ALUMINUM • BRASS • BRONZE • COPPER • MAGNESIUM • MONEL • ALLOYS

MACHINING FACILITIES

ALLEN-BRADLEY BULLETIN 709 STARTER

ALLEN-BRADLEY STARTER

Two of five Copeland units with A-B controls at Greenmount Co-op. Store, Dayton, Ohio.

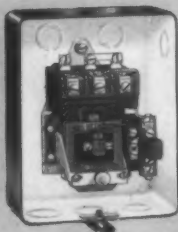


Copeland REFRIGERATION UNITS EQUIPPED WITH A-B MOTOR CONTROLS

● The automatic operation of refrigeration and air-conditioning units demands dependable motor controls. That is why leading refrigeration equipment manufacturers use Allen-Bradley solenoid starters. There is no contact maintenance at any time . . . A-B solenoid starters are good for millions of trouble-free operations. You just install them . . . and forget them.

Simple design . . . only ONE moving part . . . no pivots, pins, or bearings to corrode and stick . . . no jumpers to break . . . no filing, dressing, or cleaning of contacts. Dependable operation . . . reliable overload relays protect motor and machine. Specify Allen-Bradley controls for your next job.

Allen-Bradley Co., 1340 S. Second St., Milwaukee 4, Wis.



Single-Phase
Starter



Three-Phase
Starter

Allen-Bradley Motor Controls for Air-Conditioning & Refrigeration

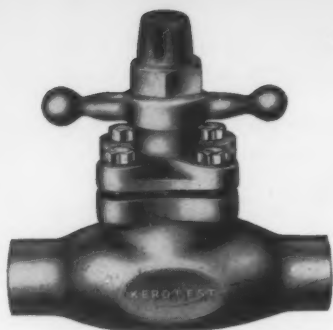
The Bulletin 709 Solenoid Starter is the heart of A-B automatic controls. Accessory units consist of pressure and temperature switches, push buttons, selectors, etc.



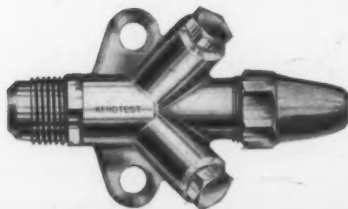
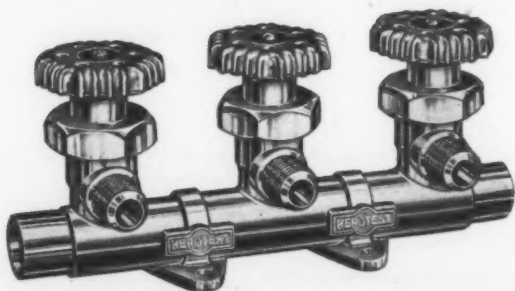
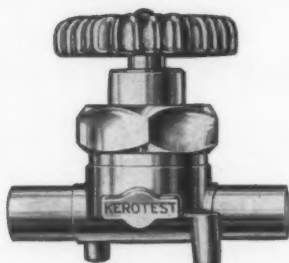
ALLEN-BRADLEY

SOLENOID MOTOR CONTROL

QUALITY



HERE ARE THE **NEW** KEROTEST VALVES YOU ASKED FOR..!



Your demand has been our command . . . and here are five of the new KEROTEST Valves that will give you still more of the characteristics you look for most in valves. More compactness . . . greater ease of installation . . . fuller efficiency . . . and greater dependability and service than ever . . . with economy. For the finest and newest in refrigeration and air conditioning valves . . . see your KEROTEST Wholesaler.

See your

KEROTEST

Wholesaler

KEROTEST MANUFACTURING CO.
PITTSBURGH, PA.

AMERICA'S FIRST NAME IN QUALITY VALVES

AT THE SHOW
VISIT BOOTHS 220 and 222



Illustrates Century 3 horsepower type RS and smaller motors.



Illustrates Century 7 1/2 horsepower type RS motors.

Century Repulsion Start Induction Brush Lifting Single Phase Motors **START HEAVY LOADS**

Century Type RS motors are widely used to drive all kinds of motorized equipment wherever single phase power is distributed, particularly in suburban or farm districts. They have been satisfying owners for more than 43 years.

Because repulsion start motors have the highest starting torque per ampere of any single phase motor, they are ideal for equipment that must start under full load.

Century single phase motors are built in sizes up to 20 horsepower and other types in a wide range from 1/6 to 400 horsepower to provide top performance to meet every electric power application.

Specify Century for all your electric power requirements.



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The Cleveland Public Auditorium, Cleveland, Ohio

ANSUL

Technical Information Headquarters

BOOTH 713

at the

REFRIGERATION AND AIR CONDITIONING EXPOSITION
JANUARY 26, 27, 28, 29

ANSUL CHEMICAL COMPANY
SULFUR DIOXIDE • METHYL CHLORIDE DRY CHEMICAL FIRE EXTINGUISHERS

MARINETTE, WISCONSIN

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Please consider this a personal invitation to visit our booth when you attend the Cleveland Exposition. Our booth will be Ansul Technical Information Headquarters. We know that our technical display will be both interesting and educational.

Representatives of our Research and Engineering departments will be present and will welcome the opportunity of discussing refrigeration problems with you.

Our officers and sales personnel are looking forward to this opportunity to greet old friends and make many new ones.

Be sure to visit Booth 713 in the arcade.

Most cordially yours,

H. V. Hegarty
President

ANSUL REFRIGERANTS ARE AVAILABLE AT LEADING WHOLESALERS EVERYWHERE

ANSUL CHEMICAL COMPANY

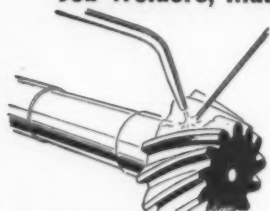
REFRIGERATION DIVISION, MARINETTE, WISCONSIN

DISTRIBUTORS FOR KINETIC'S "FREON-11," "FREON-12," "FREON-21," "FREON-22" AND "FREON-113"

There's a PUROX Outfit for every type of work

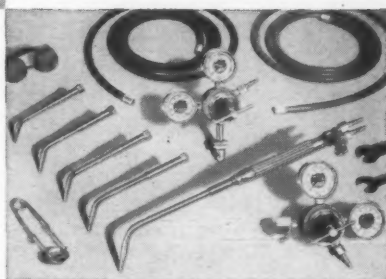
.... here's 3 that are typical

Job Welders, Industrial Maintenance Departments

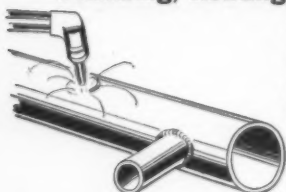


General Welding such as repairing broken machinery by fusion welding and bronze-welding. Re-building gear teeth. Hard-surfacing wearing parts.

No. 35 Welding Outfit\$91²⁰

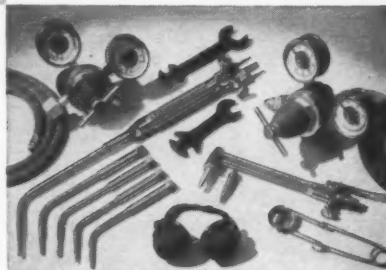


Plumbing, Heating, and Air-Conditioning Contractors

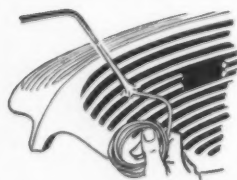


Welding pipe. Heating pipe for wrinkle-bending. Cutting pipe to length or cutting holes to insert branch lines. Soldering sweat-type copper fittings. Handles all welding and also cutting up to 4 in. thick.

No. 35 Combination Outfit\$115²⁰

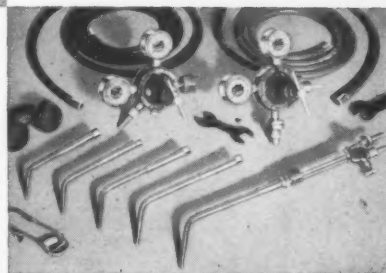


Garages, Truckers, Fleet-Owners, Auto Body Shops



Welding fenders. Bronze-welding cracked cylinder blocks and broken or worn parts. Heating frames for straightening. Repairing radiators and white metal grilles.

No. 34 Welding Outfit\$73²⁰



New Small-Size Cylinders — No Monthly Rent

Linde oxygen and Prest-O-Lite acetylene are now available from Linde Distributors in convenient small-size cylinders—oxygen cylinder, Style Q, 80 cu. ft.*; acetylene cylinder, Style WQ, 60 cu. ft. New plan assures cylinders when you need them without demurrage charges.

*In some areas, Style XL, 70 cu. ft.

Purox Apparatus is Stocked by Linde Jobbers Everywhere

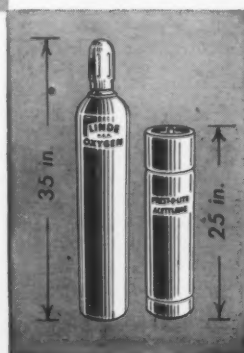
THE LINDE AIR PRODUCTS COMPANY

Unit of Union Carbide and Carbon Corporation

30 E. 42nd St., New York 17, N. Y. **UIC** Offices in Other Principal Cities

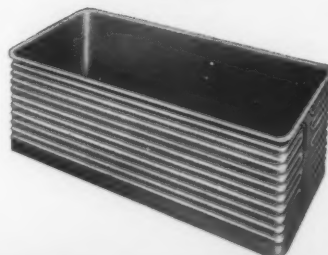
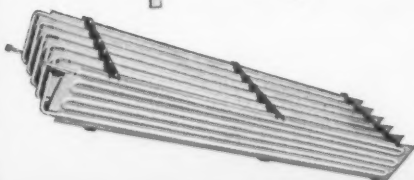
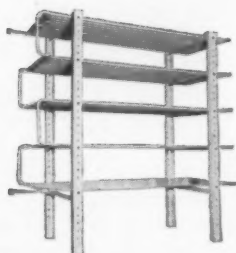
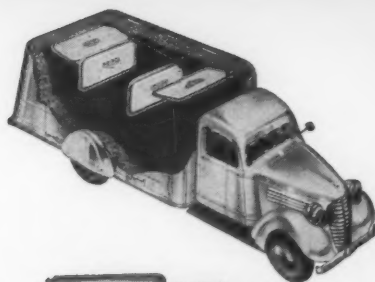
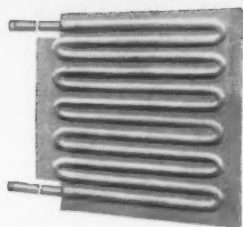
In Canada: DOMINION OXYGEN COMPANY, LIMITED, TORONTO

"Linde," "Prest-O-Lite" and "Purox" are trade-marks of Union Carbide and Carbon Corporation or its Units.



KOLD-HOLD *Design*

opens the door to Refrigeration Profits



KOLD-HOLD "Quick Action" Serpentine Plates have a multitude of applications and combinations . . . all profitable to the user. Used separately, in banks, in plate stands, or as cabinet liners, they assure you the following advantages.

1. Easy installation.
2. Maximum prime surface.
3. No possibility of short circuiting the flow of refrigerant, which flows in one continuous pass from inlet to outlet.
4. Highest rate of plate heat acceptance.
5. Oil logging positively prevented.
6. Minimum pressure drop.
7. Tested under pressure.
8. An appreciably higher "K" factor.
9. Thoroughly cleaned and dehydrated.

KOLD-HOLD

Jobbers in Principal Cities

KOLD-HOLD MANUFACTURING COMPANY

JANUARY, 1948

PROCESSING

TRANSPORTATION

protects every step of the way

STORAGE

503 E. HAZEL ST., LANSING 4, MICHIGAN

**Your Equipment is
NOT COMPLETE
without**



THE MIDGET PURGER

The Midget is the companion or sister product to the Little Giant Purger. The Little Giant, previously introduced, is for purging the larger units, but the Midget is a low cost, water cooled purger designed for economical operation for the smaller or fractional units up to 10 hp.

The Midget Purger provides positive and complete purging of the refrigerating system with minimum loss of refrigerant.

Purging is an operation familiar to all refrigeration men. With the standard purging facilities it is usually impossible without an appreciable loss of refrigerant.

When non-condensable gases are present in a refrigerating system, it will operate at higher pressures than if these gases were not present. Unnecessarily high pressures result in the compressor being subject to:

Higher bearing loads. Higher discharging temperatures. Increased wear on moving parts. Greater power consumption.

HERE ARE THE ADVANTAGES OF PURGING WITH THE MIDGET PURGER

THERE IS NO GUESSING—By bleeding off the gases through the purge valve until the liquid rises to the top, you have a positive indication when purging is completed.

MINIMUM REFRIGERANT LOSS—The air in the system is completely separated from the refrigerant before the purge valve is opened.

SIMPLE TO OPERATE—All operating valves easily accessible. Not necessary to check pressures or temperatures. No need to shut down the system.

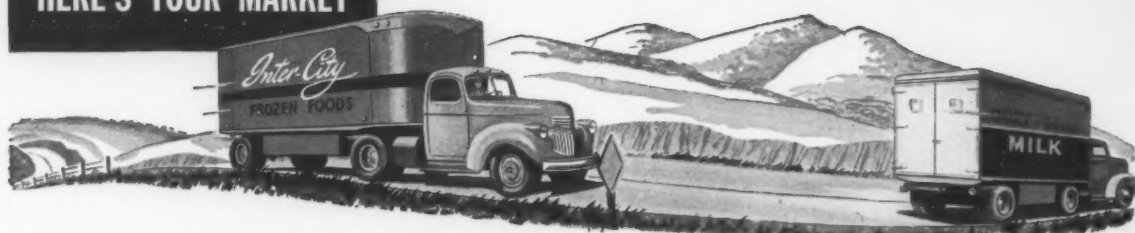
POWER SAVINGS—Power savings, due to a reduction in head pressure will pay for the "MIDGET PURGER" many times over.

MANUAL OPERATION—Fully manually operated, there is no possibility of a slow leak developing which would cause a loss of refrigerant before the trouble is located.

**ORDER THROUGH
YOUR WHOLESALE**

MUELLER BRASS CO.
PORT HURON, MICHIGAN

HERE'S YOUR MARKET



Refrigeration on wheels is rolling ahead

IN THE perishable food field, transportation is the vital link that connects producer to consumer. Fresh food and quick frozen food must, as a rule, be transported hundreds of thousands of miles from the point of production to the point of consumption. During the next ten years we may expect to see revolutionary developments and large volume sales of refrigeration in this field.

Field application of mechanical refrigeration to existing truck bodies is necessarily expensive and often unsatisfactory. Many mobile refrigeration problems must be worked out by trial and error, field proving, and fatigue tests.

This fact has created a demand for "package" type refrigeration, in which the condensing unit, low side, and control apparatus are an integral

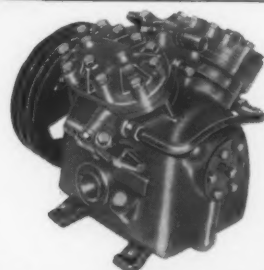
package that can be slipped in and bolted to the truck body with a minimum of skilled labor. This type of sale is probably most successful and profitable for the average distributor and dealer.

The prime requisite of mobile refrigeration is maximum output with the least possible weight and bulk, as cargo space and weight cannot be sacrificed for mechanical equipment.

Servel's program in developing smaller, lighter, higher speed compressors has brought leadership in this field. Servel's Supermetic in integral HP sizes is ideal for short-haul applications with holdover evaporators. Modern Servel belt-driven compressors offer equal advantages for long-haul applications where the compressor operates by means of power takeoff or gas engine.



Thermo-King package refrigeration unit for large trucks and trailers by courtesy of U. S. Thermo Control Company, 44 South Twelfth Street, Minneapolis, Minn. The Electric Refrigeration Division of Servel, Inc., manufactures only condensing units. These are available through prominent distributors and fixture manufacturers in all sections of the country.



Servel's new compact four- and six-cylinder compressors are ideal for big trucks requiring from one to three tons of refrigeration capacity. Specification and application data on request.

Servel Inc.
ELECTRIC REFRIGERATION DIVISION, EVANSVILLE 20, INDIANA

Number Ten in a series of advertisements featuring markets available to the alert dealer in the commercial refrigeration industry. Ask for reprints for use in training salesmen to take full advantage of commercial refrigeration markets.



... a new family of refrigeration motors



Fractional HP. Ratings
PERMAMOTORS. Write for
Bulletin 1001.



Integral HP. Ratings
PERMAMOTORS. Single
Phase. Bulletin 1101.



Integral HP. Ratings
Polyphase PERMAMOTORS.
See Bulletin 1201.

PERMAMOTORS are built to the specifications of the Refrigeration Industry. They give you high torque, quiet operation, heavy-duty bearings, positive-acting, long-lasting switches, low temperature performance and many other features. We call them PERMAMOTORS because they're husky, made of quality materials and will carry full rated load 24 hours a day, 365 days a year with an absolute minimum of maintenance.



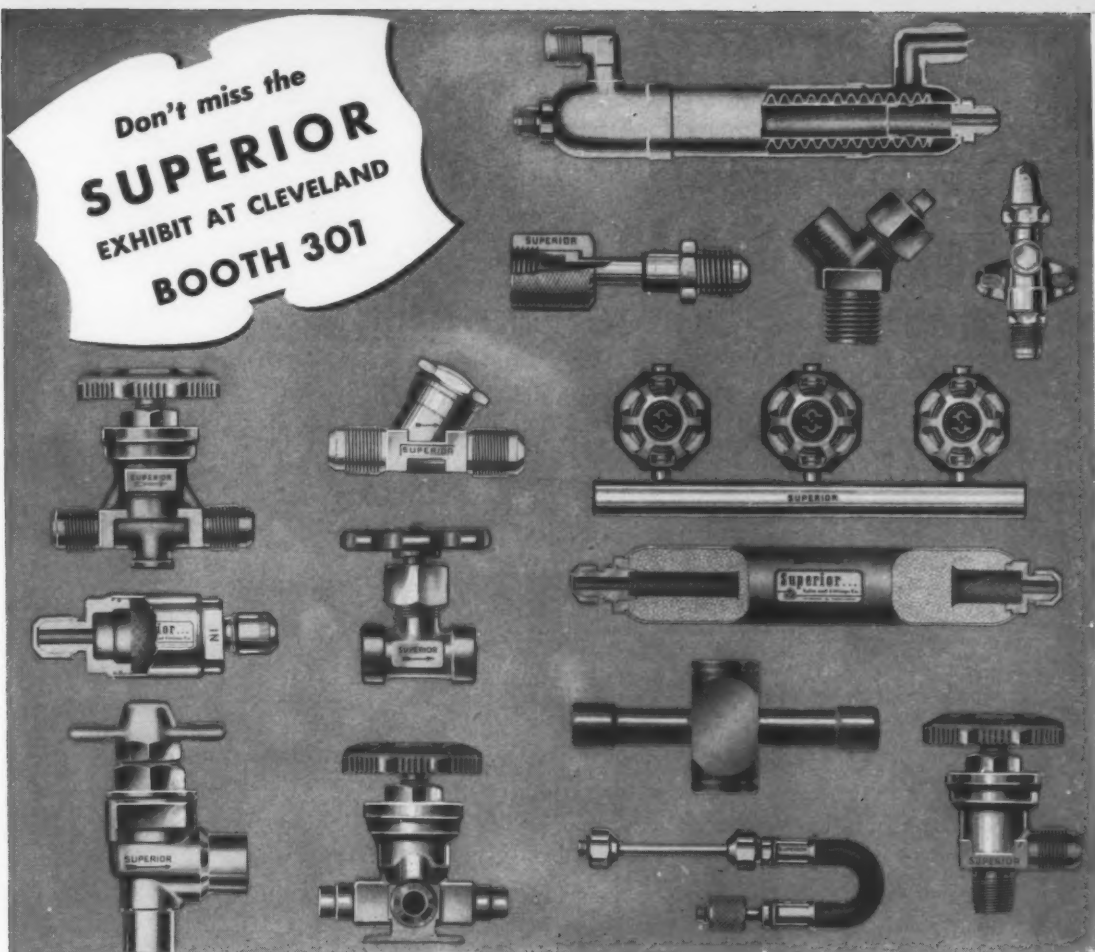
A. O. SMITH ELECTRICAL MFG. CO.

SUBSIDIARY OF A. O. SMITH CORPORATION

NEW YORK 17, ATLANTA 3, CHICAGO 4, HOUSTON 2,
SEATTLE 1, LOS ANGELES 14 - International Division.
MILWAUKEE 1.

SEE OUR DISPLAY AT BOOTH NO. 1219 • 5TH ALL-INDUSTRY EXPOSITION • CLEVELAND

Don't miss the
SUPERIOR
EXHIBIT AT CLEVELAND
BOOTH 301



Designed and Engineered for Maximum Performance

In all refrigeration and air-conditioning systems, the SUPERIOR line includes the famous Diaphragm Packless Line valves; globe, charging, purging or drain valves; hand expansion valves; pressure cup (wing cap) globe valves; packed line, angle, compressor and cylinder valves; check valves; liquid indicators and sight glasses; quick couplers; gauge manifolds; economizers (heat-exchangers) and manifolds; dehydrators and filters; rapid-chargers (refrigerant transfer systems); charging hose; and SAE flare fittings.

If you haven't a copy of SUPERIOR Catalog R-2, request one today.

Superior Valve and
Fittings Co.



1509 WEST LIBERTY AVE. PITTSBURGH 26, PENNA.
OFFICES IN PRINCIPAL CITIES - STOCKS CHICAGO (6) - LOS ANGELES (15) - JOBBERS EVERYWHERE



... I Like THE LINE ...

I Like THE SERVICE ...

I Like THEIR ENGINEERING TALENT

There's something about doing business with USAIRCO I like and I think you'll like.

First, there's the USAIRCO line of equipment. All top construction—all first rate in quality. Simply engineered and ruggedly built. USAIRCO has been making good equipment for a quarter-century—and when you figure that out in terms of the industry ... it stamps USAIRCO as one of the most experienced in the field.

Then there's the service one gets from USAIRCO. The manufacturing operation is large enough to have all the benefits of mass production ... yet not so big as to be unwieldy. You can get decisions from them ... deliveries from them ... in short a type of service that always seems to be extra special.

Then there's the USAIRCO Engineering staff. They have the finest equipment to work with—they have outstanding engineering talent selected from the best technical colleges. They have the accumulated experience that comes from years of working on air conditioning problems.

USAIRCO all adds up to one of the best of the good organizations in the country. Try them. I think you'll like them as I like them.

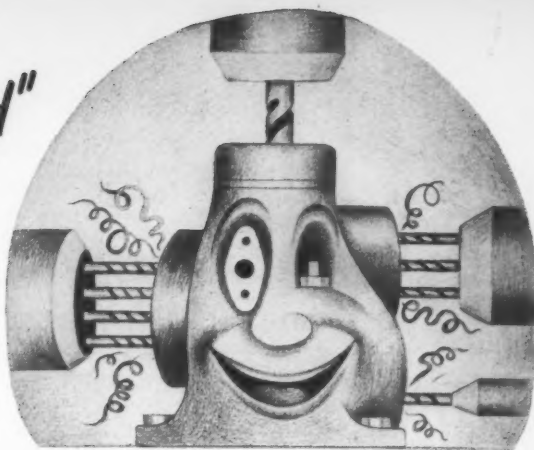


**UNITED STATES AIR CONDITIONING
CORPORATION**

Come Ave. S. E. at 33rd • Minneapolis 14, Minn.



*"I'm being bored
but you'll be interested"*



... in these **NEW** **General Electric Condensing Units**

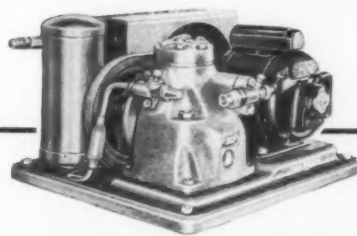
MASS PRODUCED by modern precision methods, the new General Electric Type CW condensing units have the built-in quality to carry on the General Electric tradition for dependability and economy in operation.

New design and new production methods make it possible for General Electric to offer a host of quality features. Many of these features have never before been found in small fractional horsepower units.

NEW COORDINATED DESIGN

This line sounds a new note in the commercial refrigeration field. It is smartly coordinated in design... it covers the range of from 1/6 hp to 2 hp... it includes 8 air-cooled models and 4 water-cooled units. Only three basic compressors are used for the entire line.

Get the details today from your General Electric representative. *General Electric Company, Air Conditioning Department, Section 81401, Bloomfield, New Jersey.*



EVERY UNIT IN THE NEW GENERAL ELECTRIC TYPE CW CONDENSING UNIT LINE HAS THESE IMPORTANT FEATURES

1. Forced Feed Lubrication
2. Counterbalanced crankshaft
3. Oil sight glass which gives a positive check on operation of lubrication system.
4. Rotating balanced bellows shaft seal.
5. Thin valve plate for high volumetric efficiency and low operating cost.
6. Many interchangeable replacement parts.
7. Lead plated copper gaskets for a better seal and easier servicing.
8. All units tested under actual load conditions before leaving factory.

GENERAL  ELECTRIC
Refrigeration Equipment



THE *Crown Jewels*

OF EMPIRE BRASS MFG. CO., LTD.

LONDON, CANADA

NIBCO

WROT FITTINGS

AS CROWN JEWELS are the cherished possessions of empires, NIBCO WROT Copper Fittings now become the pride of Empire Brass Mfg. Co., Ltd., of London, Canada. This outstanding manufacturer of bronze valves, fittings and specialties for water, gas, steam and oil, has been licensed to produce NIBCO WROT Fittings in Canada.

Through Empire's broad distribution system with branch warehouses at Hamilton, Toronto, Sudbury, Winnipeg and Vancouver, this new line will be readily accessible to the Canadian trade. It will be of the same high-quality that is typical of all NIBCO products. This is assured by Empire's manufacturing experience and their full utilization of NIBCO patents.

● NORTHERN INDIANA BRASS CO., 114 Plum Street
VALVES AND FITTINGS SINCE 1904

ELKHART, INDIANA

THE REFRIGERATION INDUSTRY



Continuously serving
The Refrigeration Industry
SINCE 1919

Now!

...YOUR JOBBER CAN SUPPLY YOU WITH
THESE *Genuine* ACME PRODUCTS

For the first time in more than a quarter century serving the industry—these Acme products are obtainable from jobbers.



Freon

OIL SEPARATORS

Double filter for double efficiency. They assure maximum separation of oil from refrigerant vapor. Six models meet all requirements for installations from 1/4 H.P. up to 10 H.P. Service all installations at moderate cost. Underwriters Laboratories approval seal on each model.



HEAT EXCHANGERS

Shell and Coil type for use with FREON and Methyl-Chloride—for installations 1/2 ton up to 50 tons. They increase the capacity of all cooling systems—especially in all low-temperature applications. Nationally established for many years—now obtainable from your jobber.



SHELL AND TUBE CONDENSERS

Model-J models are now obtainable from your jobber in sizes from 1/2 ton up to 25 tons. For FREON and Methyl-Chloride. For many years they have been used by the nation's largest manufacturers of original equipment.

SHELL and COIL CONDENSERS



These compact, sturdily-built condensers have for many years been extremely popular in the replacement field. Inexpensive, efficient. Especially designed for small installations from 1/2 H.P. to 5 H.P. For FREON and Methyl-Chloride. Shells of seamless steel tubing, copper condensing coils.

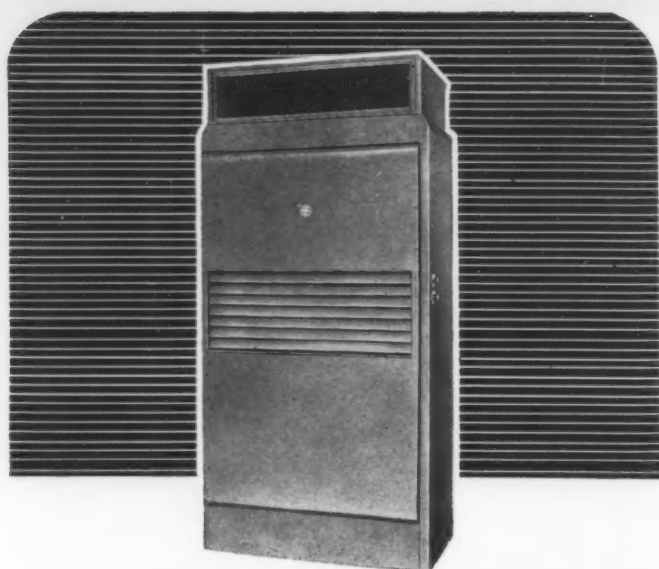
These four Acme products have enjoyed popularity and an established reputation for performance for many years in all sections of the nation. A new sales policy, now for the first time makes them obtainable from leading jobbers. All models are Underwriters Laboratory Approved.

See these products at
Booth 604 at the All-In-
dustry Exposition.

Acme products mean satisfactory performance in the field.

ACME INDUSTRIES, INC.

JACKSON, MICHIGAN



TYPHOON

presents

**the latest technical developments
in Self-Contained
AIR CONDITIONING UNITS**



**Fifth All-Industry
Refrigeration and Air Conditioning Exposition
Public Auditorium, Cleveland, Ohio
January 26 to 29**

See our exhibit on "Cool Profits in
Air Conditioning"—Booth 907



and when you're in New York for the International Heating and Ventilating Exposition,
February 2nd to 6th, visit our Brooklyn showroom—

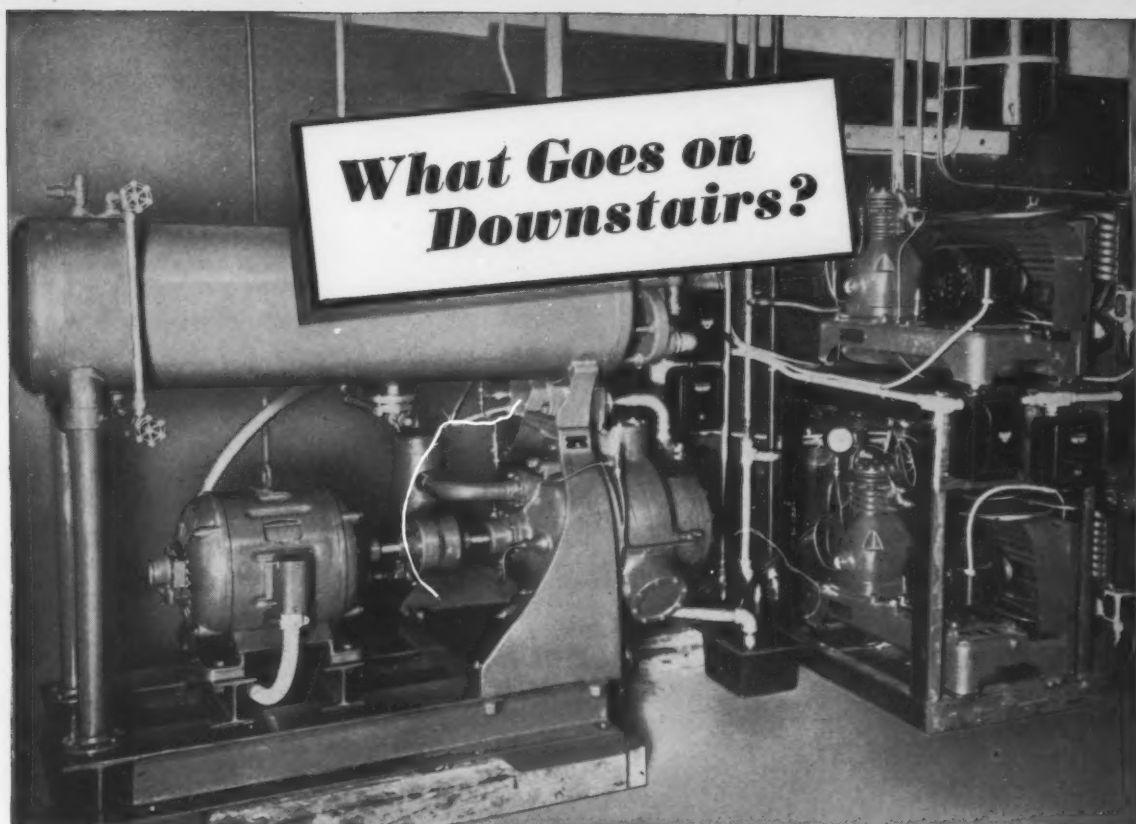
TYPHOON AIR CONDITIONING CO., INC.

Division of
ICE AIR CONDITIONING CO., Inc.

794 UNION STREET



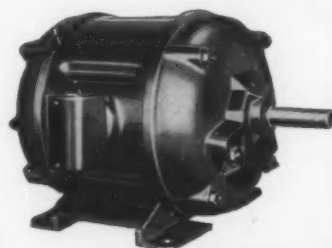
BROOKLYN 15, N. Y.



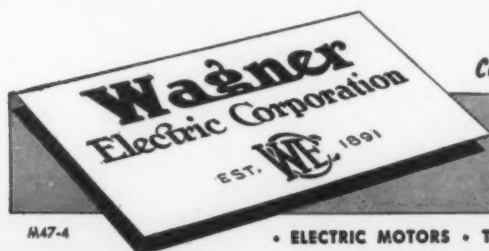
WAGNER *Quality* MOTORS *help customers shop in cool comfort...*

BUSY shoppers never give a thought to what goes on downstairs. They're not interested in motors that drive the apparatus responsible for their comfort. But smart merchandisers know that comfort quickly turns prospects into customers. They know, too, that the dependability of the motors that drive air conditioning, heating, and ventilating equipment is of paramount importance. That's why you find hundreds of thousands of Wagner Quality Motors on the job everywhere driving all types of apparatus that help customers shop in comfort.

Today, hundreds of equipment manufacturers have standardized on these outstanding Wagner Quality Motors. Wagner can help you, too. If you manufacture or use motor-driven equipment, it will pay you to investigate Wagner Motors. Users of Wagner motors also profit by our quick, convenient, nationwide service facilities. Twenty-nine branch offices, located in principal cities, are ready to give you service and advice. Contact our nearest office, or write Wagner Electric Corporation, 6442 Plymouth Ave., St. Louis 14, Mo., for bulletins on the complete line.



The motor illustrated above is typical of the Wagner complete line of polyphase and single-phase motors.



Consult Wagner Engineers on all Electric Motor Problems



• ELECTRIC MOTORS • TRANSFORMERS • INDUSTRIAL BRAKES • AUTOMOTIVE PRODUCTS •

MA47-4

JANUARY, 1948

29

Only

THERMOBANK

by **KRAMER**

*Keeps Coils Frost-Free
Automatically
at Any Temperature
without..*

LABOR
ATTENTION
ELECTRIC HEATERS
BRINE OR WATER SPRAYS



• See our new developments at the Cleveland Show—Booths 116 and 118.

• Write for Bulletin 16

KRAMER TRENTON CO. *Trenton, N.J.*

V-200 Thermal Expansion Valve, manufactured by General Controls Company, Glendale, California.

VALVE BODY...
Die pressed Brass
forging

**EXPANSION BULB
AND TUBE...**
One-piece Seamless
Copper...



... Both by ANACONDA

TO ASSURE utmost uniformity, high strength and dimensional accuracy, the General Controls Company of Glendale, California, selected Anaconda materials for its V-200 thermal expansion valve.

Valve bodies are machined from Anaconda Die Pressed Brass Forgings and fitted with an Anaconda Capillary Tube and Thermal Expansion Bulb, formed from a single length of seamless copper tube.

Of all the Anaconda products serving the refrigeration and air-conditioning industry, however, Anaconda Copper Refrigeration Tubes are no doubt the best known. These precision-made seamless tubes are formed from 99.9+ percent pure copper, deoxidized to increase corrosion resistance. They are uniformly soft, easy to bend and can be readily flared without cracking. The exclusive Cup Seal® makes sure that Anaconda

Refrigeration Tubes come to you completely dehydrated, with clean, bright interior walls.

French small diameter, thin gage tubes, in copper and copper base alloys, and aluminum, are available in standard sizes from .015" to 1" O.D., with wall thickness down to .005".

For information on precision tubes and copper and copper alloys in all commercial forms, call on Anaconda.

*Patent Applied For

47595

ANACONDA
From copper to engineering

Anaconda
REFRIGERATION TUBES

French Small Tube Branch of
THE AMERICAN BRASS COMPANY

General Offices: Waterbury 88, Connecticut
Subsidiary of Anaconda Copper Mining Company
In Canada: ANACONDA AMERICAN BRASS LTD.
New Toronto, Ont.

See our whole line at the All-Industry Exposition, SPACE 217

CURTIS

Invites you to visit
The Curtis Exhibit
 at the
**All Industry Refrigeration
 and Air Conditioning Exposition**
 January 26-29 Booths 210-212-214
 Cleveland, Ohio
 and the
**8th International Heating
 and Ventilating Exposition**
 February 2-6 Booths 295-280-297-278
 New York City

Here you'll see the latest developments in the complete Curtis line of Refrigeration and Air Conditioning Equipment.

Find out how these and many other Curtis engineering features assure smooth, dependable performance and unusually long machine life.

1. Timken Bearings
2. Extra large condensers
3. Self-oiling — positive pressure lubrication
4. Finest materials — precision construction
5. Slow speed — low maintenance

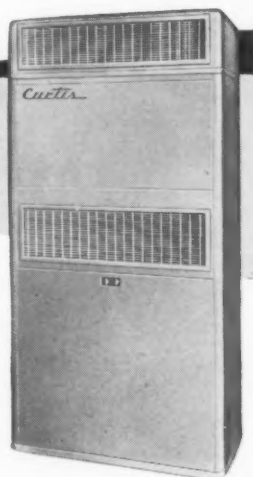
See why hundreds of Curtis dealers have found that fewer service calls on Curtis equipment mean more profits per sale.

See You at the Shows.

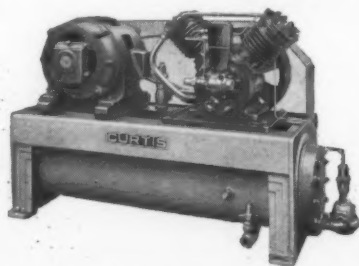
CURTIS REFRIGERATING MACHINE DIVISION

of Curtis Manufacturing Company

1915 Kienlen Avenue • St. Louis 20, Missouri



Curtis Packaged Air Conditioners,
 3, 5, 7½, 10, 15 tons capacity.



Curtis Condensing Units, ¼ to
 30 H.P. air and water cooled.

94 Years of Precision Manufacturing

SEE YOU AT THE SHOW

Drop in at the BUSH Display at the All-Industry Refrigeration and Air Conditioning Exposition at Cleveland, January 26 to 29. See the complete BUSH line of heat transfer products . . . *all available NOW through local refrigeration and air conditioning wholesalers.*

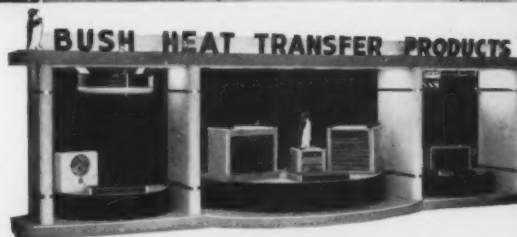
Notice the better design . . . superior engineering . . . sturdier construction of BUSH Products. And remember that these features . . . plus BUSH Service . . . mean greater customer satisfaction and more profit for you. Look for the famous BUSH Trade Mark on the heat transfer products you buy. It's money in your pocket.

The brand new BUSH plant in West Hartford, Connecticut (shown below) . . . one of the largest and most com-

pletely equipped in the industry . . . is "headquarters" for the finest group of refrigeration and air conditioning engineers in the country . . . the BUSH Factory Representatives. Their knowledge and cooperation have helped us grow during the past forty years . . . have helped make the BUSH Trade Mark stand for soundly built products and the alert application of the newest heat transfer principles.

Get acquainted with these BUSH Factory Representatives. They're good men to know. Chances are they can help you with plans and specifications on your next important job.

BUSH MANUFACTURING COMPANY
WEST HARTFORD 10, CONN.
415 LEXINGTON AVE., NEW YORK - 540 W. WASHINGTON BLVD., CHICAGO, ILL.
EXPORT ADDRESS: 13 EAST 40TH ST., NEW YORK, N. Y. — CABLE "ARLAN"





JAMISON SUPER FREEZER DOOR



JAMISON "DIXIE" COLD
PACKING VESTIBULE



JAMISON STANDARD DOOR



JAMISON VERTICAL SLIDING DOOR

protect your food products and you protect your profits

Your choice of cold storage doors has an important bearing on your ability to maintain high quality—and therefore a high level of profit on the foods you place in storage.

Because doors receive constant use—and abuse—in moving goods in and out of cold storage rooms, it is essential that the doors be properly constructed for high insulating value, easy operation, and long service life.

Mold and spoilage result from the infiltration of warm moist air and the loss of cold dry air through inefficient doors. Deterioration of product, plus increased operating costs, reduce your profit potential.

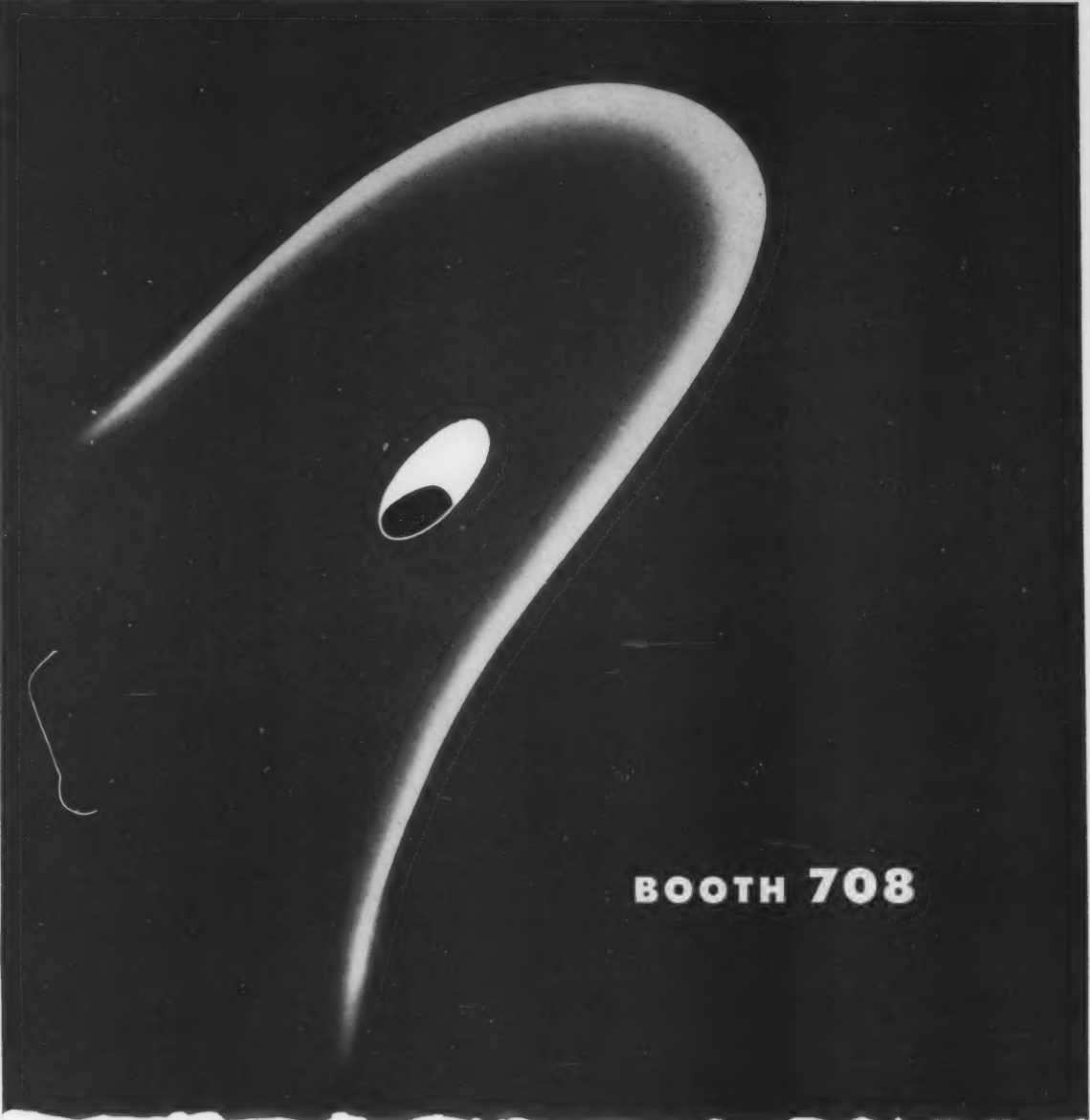
For more than 50 years, Jamison has specialized in the manufacture of cold storage doors for efficient operation and long life at all required low temperatures. Our standard models are available in many types over a wide range of sizes, and we are equipped to design and build *special types* of cold storage door to any specification.

Let us solve your cold storage door problems. Tell us products to be handled; temperatures to be maintained; size of door opening, and we shall submit our recommendation. Jamison Cold Storage Door Co., Hagerstown, Md.

JAMISON STANDARD DOORS ► JAMISON, STEVENSON, VICTOR,
NOEQUAL, LO-TEMP.



The Oldest and Largest Builder of Cold Storage Doors in the World



BOOTH 708

*I*t's a date . . . Booth 708 . . . for a preview showing of
several new model hermetics using Freon 12 and 22. Fifth Annual
All-Industry Refrigeration and Air Conditioning Exposition . . .
Cleveland Public Auditorium . . . January 26 through 29.



TECUMSEH PRODUCTS COMPANY

Tecumseh, Michigan

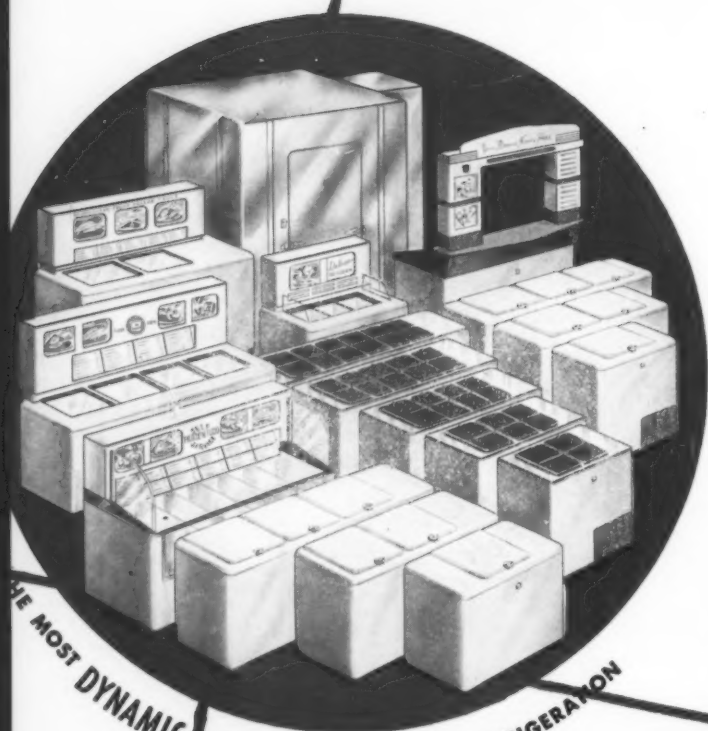
"WORLD'S LARGEST INDEPENDENT PRODUCER OF COMPRESSORS AND CONDENSING UNITS"
JANUARY, 1948

An open letter

ABOUT A FEW

Sales-stirring Exclusives in Every Cabinet!

The full Frigid-Freeze line numbers 22 units. It is the most complete line of frozen food and ice cream cabinets in the industry: Two commercial frozen food and ice cream cabinets featuring 3-Dimensional superstructures and removable Thermopane slide-tops. Open-top "Spot-Special" cabinet-on-wheels and a full length (8 ft.) open-top glass front display case, both featuring 3-Dimensional food pictures. A line of 5 conventional Ice Cream cabinets built to the most rigid specifications of the industry. A sensational new Ice Cream Center for the sale of ice cream in every form—plates, sundaes, malteds, and sodas not requiring costly carbonation equipment—all using 100% disposable paper cup service. Also 3 convenient sizes of institutional, back-room storage or up-front novelty cabinets, and a range of 3 sizes of economical Home and Farm Freezers. The all-aluminum, prefabricated Frigid-Freeze Walk-In, in 6 sizes from 160 to 730 cubic feet, available for low and high temperatures; for ice cream, frozen foods and fresh foods.



THE MOST DYNAMIC
LINE IN COMMERCIAL REFRIGERATION

MERCHANDISING MAGIC: No other single factor has contributed as much in moving frozen foods and ice cream, during 1947, as have the full color 3-dimensional food pictures introduced and exclusively featured by FRIGID-FREEZE. Here is merchandising magic; not the trick movement of a single hand but the accelerated movement of many hands, reaching eagerly and with buying intention into FRIGID-FREEZE cabinets. Here are pictures come to life; instilling new life into sales.



from FRIGID-FREEZE

**To Competitive-Minded and Hard-Hitting Distributors
Of Commercial Refrigeration Equipment**

AVAILABLE EXCLUSIVE TERRITORIES

As you may have noticed in our recent advertising, we are now prepared to take on additional distributor-representation on an exclusive and fully-protected territorial basis.

Our steel and other requirements show sufficient promise of control in 1948 so that we can make arrangements for a larger number of outlets and keep them all supplied with an ample flow of Frigid-Freeze equipment.

The one best reason, in our opinion, for any competitive-minded and hard-hitting distributor to be interested in the Frigid-Freeze line is the fact that it has made considerable money for those who have been identified with it to date.

In many quarters, Frigid-Freeze is spoken of as "the most dynamic name in commercial refrigeration". This is due, undoubtedly, to the incorporation of new sales-producing ideas in the designs and uses of our equipment.

Examine any Frigid-Freeze cabinet and you will find trail-blazing exclusives that are compelling reasons why it should be preferred by the ultimate buyer and user.

On the page to the left are illustrations of the various types of equipment included in the Frigid-Freeze line. Note especially that it is a complete line planned to fit the space requirements of large and small stores, and to provide them with "plus-

values" which will stimulate demand and "up" the sales of frozen foods and ice cream.

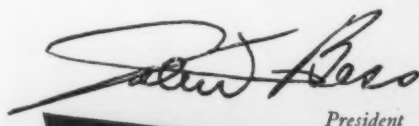
During the past year, we introduced a "sales-stirring" improvement in superstructures by using full color, 3-dimensional food pictures in place of the conventional 2-dimensional lithographs. If you have seen any of these life-like pictures, you must know what a tremendous difference they make in promoting the sale of the products displayed in the cabinets of which they have become an integral part.

The third dimension packs a powerful sales-punch in more ways than one; and we like to think that, in our overall sales picture, as well as in our superstructures, Frigid-Freeze capitalizes the third dimension with consistent effectiveness.

To us, the third dimension in selling is essentially, "sales-vision", the faculty of looking ahead, seeing ahead . . . and keeping ahead of competition.

If, in the foregoing remarks, we seem to be indulging in self-praise, we ask you to accept them rather as a basis for critical inquiry. We stand ready to prove each and every claim we make. We welcome the challenging voice that says, "Show me".

All we ask is that you indicate, today if at all possible, whether you are interested in discussing with us the subject of Frigid-Freeze distributor-representation, and when an appointment can conveniently be arranged for our regional manager.



President

REFRIGERATION CORPORATION OF AMERICA

A DIVISION OF NOMA ELECTRIC CORPORATION
GENERAL OFFICES AND FACTORY: BARBER, NEW JERSEY

See us at
the All-Industry Exposition
Public Auditorium—Cleveland, Ohio
January 26 to 29 inclusive
Booths 508, 510 and 512



**NO
ADDITION!
NO
SUBTRACTION!**



**Just Glance at
this Direct-Reading Scale on
the Penn 270 Series Control**

No addition... No subtraction... you set the "cut-in" and "cut-out" points *directly* with this simple "sight-set" calibrated scale. Never before has it been so easy to make required adjustments. Never before has an air conditioning and refrigeration control embodied so many *plus values* as the PENN 270 Series offers.

For the first time here is a control with a *load-carrying, 2-pole construction*—actually two switches in one. And you pay no premium for this extra value.

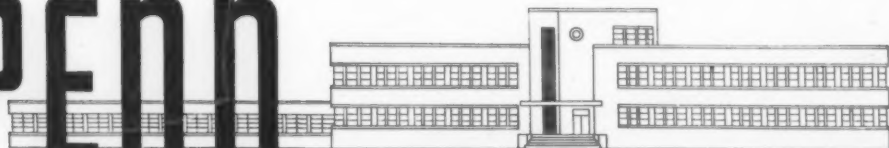
No wonder the PENN 270 is the talk of the industry. For versatility of appli-

cations, for simplicity, efficiency and dependability this control sets a new high standard. Write now, for the complete story, in Bulletin 2652. **Penn Electric Switch Co.**, Goshen, Indiana. Export Division: 13 E. 40th Street, New York 16, U.S.A. In Canada: Penn Controls, Ltd., Toronto, Ontario.

IN BOOTH 1011 AT CLEVELAND

The PENN 270 Series will be featured in our display at the 5th All-Industry Refrigeration and Air Conditioning Exposition, Jan. 26-29.

PENN



AUTOMATIC CONTROLS

FOR HEATING, REFRIGERATION, AIR CONDITIONING, ENGINES, PUMPS AND AIR COMPRESSORS

RTU

News • Laws • Trends

to start thinking about them and how to handle them profitably.

Here are a few of the suggestions NERA advances for consideration: If you're going to recondition trade-ins, do the whole job yourself—otherwise, sell them to a firm that specializes in the business; recondition the equipment fully, and give it a 90-day guarantee; sell used equipment along with your new items, unless your used equipment volume warrants a special separate location; use used equipment to "sell up" the prospect to new equipment.

Above all, NERA cautions, don't duck the trade-ins; you'll be ducking a lot of good business if you do.

● **Freezer Group Disbands.** Members of the Farm and Home Freezer Manufacturers Association have voted to disband and liquidate that association on or before January 31 next, the end of the association fiscal year. A special committee of the association, which has been surveying methods and plans of publicizing the food freezer industry, recommended that the group, having accomplished its primary purpose—that of handling wartime problems—might best serve its interests by disbanding, leaving individual members free to affiliate with other major associations now in the industry.

By so doing, it was believed that the consolidated effort of the "dollar volume" majority of freezer manufacturers might produce and carry out a national advertising and educational campaign which members feel is necessary to the continued successful sale of its products.

● **What They Say.** Porcelain Enamel Institute, as a result of a recent survey of 1000 grocers, reports that 78% of independent and chain grocers prefer porcelain enamel for frozen food cabinets. 83% of the grocers had frozen food cabinets in their stores, 45% of which were over three years old. And, according to the PEI report, 25% of the cabinets showed wear from handling and cleaning and 7% showed deterioration of the cabinet interior.

● **Something New for Something Old.** From Milan, Italy, comes word that the famous painting, "The Last Supper", by Leonardo Da Vinci, is to be enclosed in a glass air-conditioned case to protect it from further deterioration. This painting is one of the most valuable in the world, and air conditioning is more or less a "last report", Italian authorities having tried almost every other method known to protect the treasured item. Chemical treatment, previously tried, fail to provide the protection needed; now air conditioning gets its chance.

The public will still be able to view the masterpiece through the glass case, but the painting itself will be protected from the elements which cause deterioration.

● **Trade-Ins Can Be Tricky.** The National Electrical Retailers Association is cautioning its members to take a long, realistic look at the trade-in problem, in the thought that it can trip them if they won't watch out. The sales problem ahead definitely will require the handling of trade-ins, NERA feels, and now's the time

● **A New Use in Bone Surgery.** One of the new and valuable uses to which refrigeration is being put is in the field of bone surgery. Refrigerated blood banks have had years of successful use, and the same principle is being adapted to the preservation of bone and tissue for surgical grafting. The New York Orthopedic Hospital has used the "bone bank" with favorable results, it is reported. Bones can be kept at 35 to 40 F for three weeks, and reportedly will last indefinitely at 10 F. The live bone and tissue are stored in a glass screw-top container and then placed in another container, protecting the first one from dehydration and sudden temperature changes.

● **Are You Missing This Market?** Thousands of American business men, refrigeration men among them, are missing one of their biggest peacetime markets—the sale of their products to the Federal, state and municipal governments. According to the *New York Journal of Commerce*, it's a \$5 billion annual business, the Federal Bureau of Supply alone does \$500 million buying each year.

Counting in the Army and the Navy, the Federal government buys \$4 billion worth of equipment each year, and the state and local governments add another \$1 billion to that figure. Best of all, the *Journal of Commerce* says, all these agencies are always on the alert for new suppliers. So the market's there—for those with the initiative to go after it.

● **Who'd of Thunk It?** Here's a report from our Milwaukee correspondent that we hesitated a while before deciding to pass along:

"Allis-Chalmers has constructed a snow-melting unit for use on city streets at a cost of \$30,000 per unit. The snow melter uses a reverse cycle of refrigeration principle by which heat from the air is used to melt the snow. Equipment includes a 150-horsepower Diesel engine, a compressor, condenser and evaporator. A snow loader feeds the snow into the condenser and the melted snow is either stored in a tank or washed into sewers."

Refrigeration firms in the Milwaukee area are hereby alerted for possible service calls.

● **New Service for Service Stations.** Plans for all Gulf service stations now being built and all those proposed under a new building program call for installation of mechanically refrigerated water coolers, in line with the new trend toward acceptance of water coolers, as essential service and merchandising equipment.

YOUR KEY TO EXHIBITORS IN THE 5TH ALL-INDUSTRY SHOW

LISTED on this page and many pages following is the most complete information obtainable concerning most of the exhibitors in the 5th All-Industry Refrigeration & Air Conditioning Exposition. This information was obtained through direct questionnaires sent out by THE REFRIGERATION INDUSTRY magazine. Some few manufacturers entered the Show too late to be included in this roundup. A few others failed to reply to the questionnaires. All others are listed here in as great detail as their replies permitted.

The 5th All-Industry Show itself bids fair to be the greatest cooperative endeavor in the industry's history, surpassing even the record-shattering 4th Annual Show in October, 1946, when over 200 exhibitors displayed some 5,100 pieces of equipment with a total evaluation of \$1,500,000 for the benefit of the 15,000 to 20,000 persons who visited the Show. According to all pre-Show indications, this year's Exposition should be bigger and better than ever.

Sole sponsor of the 5th All-Industry Show is the

Refrigeration Equipment Manufacturers Association. To this organization, and especially to its Show Committee, pictured below, should go all credit and appreciation for a difficult job well done.

• • •

Members of REMA's Show Committee make last-minute plans. Left to right: J. A. Strachan, Weatherhead Co.; F. J. Hood, Ansul Chemical Co., committee chairman; R. K. Hanson, REMA executive secretary and Show director. J. A. Marshall, Wolverine Tube Div., is also a member of the committee.



ACE CABINET CORP. SPACE 905

PRODUCTS to be featured—

Ice cream dispensing cabinets; upright ice cream storage cabinets; home and farm freezers; frozen food display cabinets; creamer soda fountains; bobtails and sand-wich units.

WHO will be there—

A. Unger, president; M. Silver, treasurer; I. E. Stern, production manager; W. Barrow, engineer; E. G. Sears, service manager; N. S. Bloomenstein, sales manager.

ACME INDUSTRIES, INC. SPACE 604

NEW PRODUCTS to be introduced—

New models AP/FP evaporative condensers; new model "Blo-Cold" (forced convection) unit.

OTHER PRODUCTS to be featured—

Shell and tube condensers; shell and coil condensers; "Dry-Ex" water chillers; heat exchangers; oil separators.

WHO will be there—

K. A. Weatherwax, vice president and general manager; E. B. Dunphy, sales manager; Joseph Moloney, engineering department; G. M. Comstock, Pittsburgh; A. H. Munro, Des Moines; J. P. Blanchard, J. M. Craun, E. P. Craun, Cleveland; L. J. Freitas, Dallas; J. W. Snyder, Cincinnati; G. G. Schultz, Dayton; R. F. McAndrews, Louisville; N. B. Anderson, Houston; E. R. Magnus, St. Louis; L. S. Pawkett, San Antonio; R. S. Ryan, Seattle.

SPECIAL ACTIVITIES—

General sales meetings of all Acme representatives.

AIRSERCO MFG. CO., INC. SPACE 424

NEW PRODUCTS to be introduced—

Replacement hermetic unit fans; tank holders; Airserco hermetic oil; valve analyzer.

OTHER PRODUCTS to be featured—

Portable evacuator; refrigeration calculator; electric unit analyzer and starter.

WHO will be there—

E. C. Williams, president; George F. Ullum, sales manager; James Quinn, vice president; Harriet Werle, executive secretary.

SPECIAL ACTIVITIES—

Mr. Ullum will interview jobbers desirous of sales meetings with their own local RSES groups, utilizing motion pictures, etc., at the Cleveland Hotel.

AIRTEMP DIV. SPACE 103 & 105

NEW PRODUCTS to be introduced—



New fractional line of sealed radial condensing units in $\frac{3}{16}$, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 2 hp sizes for all types of commercial applications.

OTHER PRODUCTS to be featured—

Packaged air conditioner and residential year-round air conditioning unit.

WHO will be there—

I. C. Baker, vice president; H. A. Malcolm, vice president & general sales manager; V. P. Black, advertising manager; W. C. Bartels, sales promotion manager; I. A. Eubanks, editor of "Airtemp News" & i/c of publicity; M. T. Bard, product director, commercial refrigeration; A. F. Ward, product director, packaged air conditioning; W. B. Shirley, director of heating sales; G. S. Cobb, staff assistant; E. A. Ham, northern divisional manager; S. Anderson, Jr., eastern divisional manager.

ALCO VALVE CO. SPACE 608

PRODUCTS to be featured—

Complete line of automatic refrigerant control valves.

WHO will be there—

R. P. Kipp, sales manager; A. L. Baker, assistant sales manager; C. F. Cooley, advertising manager; sales engineers—August Ulbert, B. W. Rist, C. W. Alcott, Leo J. Freitas, Leonard K. Wright, Jr., George J. Boepple, W. B. Knox, J. A. Schenk, Roy B. McCrady, R. N. Meyer.

ALUMINUM CO. OF AMERICA SPACE 918

PRODUCTS to be featured—

Aluminum shelving, hardware, chiller doors, tubing, freezing units, screw machine products, extruded shapes, ducts, and aluminum finishes.

WHO will be there—

John R. Willard, head of development division; other sales and development representatives.

AMERICAN BRASS CO. SPACE 217

PRODUCTS to be featured—

"Anaconda" dehydrated refrigeration tube; capillary tubing in a single 2500-foot un-jointed coil; formed and fabricated tube parts; vibration eliminators; refrigeration charging hose; "Anaconda" Types K and L copper tubes.

WHO will be there—

M. B. Allan; F. W. Green; W. E. Meister; P. A. Coleman; R. Hegarty; E. J. Coleman; A. B. Freeman; William C. Knoepfel.

AMERICAN FLANGE & MFG. CO., INC. SPACE 1112

NEW PRODUCTS to be introduced—

Application of "Ferro-Therm" steel reflective insulation to refrigerated structures; preformed "Pan-Shaped" Ferro-Therm for residential use; the Ferro-Therm "Hot Box" which dramatically portrays the insulating efficiency of a single layer of Ferro-Therm.

WHO will be there—

Norman O. Hommert; Daniel J. Alesio.

AMERICAN INJECTOR CO. SPACE 126

NEW PRODUCTS to be introduced—

No. 500 Series oil separators; new starting load regulating valve.



OTHER PRODUCTS to be featured—

Snap action valves; constant pressure valves; water valves; line check valves; oil separators; load check valves; line check valves; adapter flanges; pressure-vacuum setting pumps; water strainers, etc.

WHO will be there—

Ed Kellie, vice president; J. L. Trix, secretary & superintendent; agents—Geo. I. Boone, Geo. B. Boone, W. Cody, Allan Cody, J. C. Battles, Van D. Clothier, J. D. Ross, A. E. Doane.

ANSUL CHEMICAL CO. SPACE 713

PRODUCTS to be featured—

No refrigerants will be shown, but the display will feature an interesting collection of solids taken from refrigeration systems. These solids were formed either by chemical or physical action, and complete information as to their formation will be made known.

WHO will be there—

H. V. Higley, president; F. J. Hood, vice president; R. C. Hood, secretary; L. C. McKesson, sales director; G. B. Vermilye, sales manager, refrigeration division; L. T. Plouff, assistant sales manager, refrigeration division; Dr. W. O. Walker, director of research; W. R. Kinelli, manager of development division; F. W. Wedge, eastern manager; Ken Covert, Ray Polley, and Floyd Duvall, district managers; T. R. Kearney, Herb Dill, E. M. Billings, Robert Meuer, and Dwight Hardie, sales representatives; R. C. McNeely, advertising manager.

ARCADE MFG. DIV. SPACE 1216

NEW PRODUCTS to be introduced—

"Super Freezer Lock" with seal breaker, for walk-in coolers and sharp freezers.

OTHER PRODUCTS to be featured—

Refrigerator locks and hinges for walk-in coolers, reach-in freezers, and back bars; track door operators, door closers, meat rail sockets, and pods.

WHO will be there—

A. J. Kerr, vice president of sales, Rockwell Mfg. Co.; Mentor Wheat, credit manager, Arcade Mfg. Div.; L. M. Bordner, sales manager, Arcade Mfg. Div.

ARMSTRONG CORK CO. SPACE 409

NEW PRODUCTS to be introduced—

"Foamglas" low-temperature insulation.

OTHER PRODUCTS to be featured—

Corkboard, mineral wool board, cork covering, and heat insulation materials.

WHO will be there—

G. S. Mann, manager, contract operations; W. N. Hartman; H. B. Wentz, Cleveland office, district manager; A. G. Klein; J. S. Taylor.

AUTOMATIC PRODUCTS CO. SPACE 504

PRODUCTS to be featured—

New models 211 and 212 pressure limiting expansion valves, plus regular line of expansion valves, solenoid valves, water regulating valves, suction pressure regulating valves and "TrapIt" and "TrapDri."

WHO will be there—

R. W. Johnson, president; E. A. Valle, vice president and general manager; D. Moerick, sales manager; V. Pawelsky, A. L. Topp and D. Albright, engineering department; representatives—B. T. Carroll, D. G. Tmey, Jack Cowan, R. E. Morton, John F. Gibbs, J. E.



E. M. FLANNERY
President

REMA Members To Be Hosts at Show



K. B. THORNDIKE
Secretary

WHILE no formal, full-scale meeting will be held by the Refrigeration Equipment Manufacturers Association in connection with the 5th All-Industry Show, REMA, sole sponsor of this year's exposition, nevertheless will hold various section and committee meetings and also will serve as sponsor of the 5th All-Industry Exposition Banquet.

Chronologically, REMA's activities during the Show will stack up as follows:

On Monday, January 26 (the Show's opening day), REMA will break the social ice by inviting officers, directors and secretaries of all cooperating associations to an All-Industry Cocktail Party. This party is scheduled for 5 p.m. at the Cleveland Hotel.

On Tuesday morning, January 27, REMA's water

cooler manufacturers will hold an industry meeting.

Wednesday evening, January 28, is the time to set for the 5th All-Industry Exposition Banquet. The place will be the Cleveland Public Auditorium, where the Show itself is being held, and nearly 1900 persons are expected to attend. This banquet, intended as a get-together for as many Show-goers as possible, will be accompanied by what is being hailed as a stellar floor show. An outstanding dance band will provide music for dancing for the remainder of the evening.

On Thursday, January 29 (closing day of the Exposition), at 5 p.m., REMA's board of directors and its special Show Committee will meet at the Cleveland hotel to review the Show's activities and to officially wind up all business of the 5th All-Industry Exposition.

Time Table of Show Week Activities

Monday, January 26

- 8:00 a.m.—Registration, Refrigeration Equipment Wholesalers Association—Hotel Statler.
 9:30 a.m.—Annual meeting, president's report and speakers, National Association of Refrigeration Contractors—Hotel Allerton.
 10:00 a.m.—Preview of All-Industry Exposition, Public Auditorium, exclusively for wholesalers.
 12:30 p.m.—Press Luncheon Meeting, National Association of Refrigeration Contractors—Hotel Allerton.
 2:00 p.m.—All-Industry Exposition (Open to entire industry to 10:00 p.m.)
 5:00 p.m.—Cocktail Party, given by REMA for officers, directors, and secretaries of cooperating association—Rose Room, Hotel Cleveland.

Tuesday, January 27

- 9:30 a.m.—Annual meeting, with speakers, committee reports and election of directors, National Association of Refrigeration Contractors—Hotel Allerton.
 9:00 a.m.—Meeting, Drinking Water Cooler Manufacturers Assn. (Division of Refrigeration Equipment Manufacturers Assn.).
 10:00 a.m.—13th Annual Meeting, Refrigeration Equipment Wholesalers Association—Hotel Statler.
 12 NOON—All-Industry Exposition (For Refrigeration Contractors, Dealers, and Service Engineers only. Open to 6:00 p.m.).
 7:00 p.m.—Cocktail Party & Annual Banquet, Refrigeration Equipment Whole-Association—Hotel Statler.
 7:30 p.m.—Annual Banquet, National Commercial Refrigerator Sales Association—Grand Ballroom, Hotel Carter.

Wednesday, January 28

- 10:00 a.m.—Regional Meetings, Refrigeration Equipment Wholesalers Association—Hotel Statler.
 12 NOON—All-Industry Exposition (Open to 6 p.m. to entire industry).
 2:00 p.m.—Annual Business Meeting and Election of Officers, National Commercial Refrigerator Sales Association.
 7:30 p.m.—5th All-Industry Exposition Banquet, Arena Floor—Public Auditorium (Continuous entertainment to 1:00 a.m.).

Thursday, January 29

- 10:00 a.m.—All-Industry Exposition (Open to 4:00 p.m. to entire industry).
 5:00 p.m.—Meeting, All-Industry Show Committee and Board of Directors, Refrigeration Equipment Manufacturers Association.

Hutchinson, Allan Cody, William Cody, R. E. Petersen, A. L. Neva, John W. Hall; and K. Ruger, Milwaukee sales office.

BAKER ICE MACHINE CO., INC.

SPACE 506

PRODUCTS to be featured—

Ammonia and Freon condensing units, compressor units and bare compressors in complete range of capacities from 1 to 15 hp; integral and component parts showing features of construction.

WHO will be there—

Ross Rathbun, president; Albert F. Milton, chairman of executive committee and secretary; H. C. Hickock, general sales manager; W. W. Woodroof, manager of distributor sales.

BALLY CASE & COOLER CO.

SPACE 1105 & 1107

NEW PRODUCTS to be introduced—

Series 36 double-duty case; Series 363 delicatessen case; endless type top display case.

WHO will be there—

Leon Prince; George M. Prince.

BALTIMORE AIRCOIL CO., INC.

SPACE 1212

NEW PRODUCTS to be introduced—

10 T. R. Type "U" condenser, a new model of centrifugal fan condenser; 10 T. R. Type "CPE" propeller fan condenser, a special development for outside installation; 5 T. R. "Jr." evaporative condenser, a new line built in 3, 5, and 7½ T. R. capacity; liquid receivers.

WHO will be there—

John Engalitcheff, Jr., president; Ray R. Forseille, vice president.

BERRY MOTORS, INC.

SPACE 1122

NEW PRODUCTS to be introduced—

Rotary vaneless Freon compressor.
 WHO will be there—
 Harrell F. Jeanes, sales engineer; Kingsley W. Hooker, executive vice president.

BETZ CORP.

SPACE 609

PRODUCTS to be featured—

Complete line of "Filterpure" cooling units.

WHO will be there—

Lyman B. Betz, president; V. C. Knight, vice president; R. W. Schreiber, representative, central district; H. Cullatt and J. Blumhardt, representatives, southern district.

R. H. BISHOP CO.

SPACE 112

NEW PRODUCTS to be introduced—

Frozen food display cabinet.
 OTHER PRODUCTS to be featured—
 Food freezer; "Air Mover" propeller type fan-line.

WHO will be there—

R. H. Bishop, president and general manager.



BLACK, SIVALLS & BRYSON, INC.

SPACE 320

NEW PRODUCTS to be introduced—

Sealed type "Safety Head," a pressure relief device widely adapted to refrigeration and air conditioning systems.

OTHER PRODUCTS to be featured—

Regular line of "Safety Heads."

WHO will be there—

Bert Huff, general sales manager, special products div.; Jim Myers, assistant general sales manager, special products div.; Harold Baker and Orville Heinicke, White Industrial Sales & Equipment Co., Cincinnati.

BONNEY FORGE & TOOL WORKS

SPACE 328

PRODUCTS to be featured—

Full line of refrigeration hand tools, including some items dropped during the war but now reinstated.

WHO will be there—

Fred A. Durham, Jr., vice president and secretary; Charles D. Otterson, vice president and sales manager; Dwight E. Tuttle, advertising manager.

BREWER-TITCHENER CORP.

SPACE 1020

NEW PRODUCTS to be introduced—

Store display sales case for frozen foods.

OTHER PRODUCTS to be featured—

Evaporator plates.

WHO will be there—

F. A. Ellis, plant manager; James Florence, assistant to manager; James Cox, engineering; C. H. Beane, sales and engineering.



THE BROQUINDA CORP.

SPACE 917 & 919

NEW PRODUCTS to be introduced—

Installation of the dry ice refrigerating system.

WHO will be there—

Frank A. Stead, president; Robert Peacock, vice president; R. G. Fittzell, assistant controller; Ray Manuel, sales engineer.

BRUNNER MFG. CO.

SPACE 304, 306 & 308

PRODUCTS to be featured—

Condensing units.

THE REFRIGERATION INDUSTRY

NOW

Famous Suniso "G" Refrigeration Oils . . .

IN ONE- AND FIVE-GALLON CONTAINERS



* Only the three "G" grades are supplied in one-gallon and five-gallon containers.

For greater convenience in servicing small refrigeration and air-conditioning units, the famous Suniso "G" Oils are now available in sealed one-gallon and five-gallon containers.

Suniso "G" Oils are shipped free of moisture to give a dielectric strength in excess of 25,000 volts. The new, small packages minimize the risk of moisture absorption, which formerly took place when drums were stored for long periods and were constantly re-opened.

Suniso Oils—both regular and "G" grades—are crystal-clear, pale oils of exceptional stability and long life. They are first choice in the industry. *Probably more Suniso Oils are used for refrigeration and air-conditioning than all other brands of oil combined.*

Suniso Oils are available in ten different grades.* All have maximum resistance to reactive change when in contact with Freon, methyl chloride and other modern refrigerants. Their pour points extend to as low as 35 degrees below zero Fahrenheit, and the floc (wax separation) point for some grades of Suniso is as low as 70 degrees below zero Fahrenheit.

For the names of the wholesalers selling Suniso Oils in your area write Department RI-1.

SUN OIL COMPANY • Philadelphia 3, Pa.

In Canada:

Sun Oil Company, Ltd.—Toronto and Montreal

SUN PETROLEUM PRODUCTS

"JOB PROVED" FOR INDUSTRY



WHO will be there—

A. G. Zumbun, chairman of the board; Geo. L. Brunner, Sr.; Geo. L. Brunner, Jr., president; J. W. Thomas, general sales manager; O. R. McDonald, sales promotion manager; A. D. Sullivan, chief engineer; N. G. Crippin and E. R. Briggs, sales department; district managers—W. M. Cashin, Massachusetts; C. E. Burlingame, New York State; G. W. Mathews, New York City; F. E. Wilson, Philadelphia; F. M. Carryl, Atlanta; L. B. Menard, Cincinnati; T. J. Lyon, Chicago; J. R. Reid, Des Moines; L. A. DeMarsh, Kansas City; R. C. Smith, Dallas; W. D. McDaniel, sales representative, Dallas; J. P. Junkin, Sr., district manager, Minneapolis; J. P. Junkin, Jr., sales representative, Minneapolis; P. A. Karl, export manager; H. S. Ormsbee, assistant export manager.

SPECIAL ACTIVITIES—

Sales meeting at Utica preceding Show.

BUNDY TUBING CO.

SPACE 407

PRODUCTS to be featured—

"Bundywell" steel, "Monel" and nickel tubing.

WHO will be there—

G. D. Baker, vice president and director of sales; P. A. O'Connell, sales manager; J. A. Dugan and H. L. Millett, sales department.

BUSH MANUFACTURING CO.

SPACE 610

NEW PRODUCTS to be introduced—

Electric defrost unit cooler for low temperature work.

OTHER PRODUCTS to be featured—

Standard unit coolers, condensers, evaporators.

WHO will be there—

J. W. Hatch, president; E. M. Flannery, vice president; C. A. MacArthur, sales manager; David Zipser, research engineer; Wm.

Scholler, assistant manager; F. T. Carney, plant manager; Edward Kaicher, sales department.

BUTCHER BOY COLD STORAGE DOOR CO.

SPACE 101

PRODUCTS to be featured—

Cold storage doors; hardware—"Super Seal" fasteners and finger tip openers.

WHO will be there—

Ira E. McFarland, eastern office; George W. Slopa, factory representative; Robert E. Slopa, factory representative.



CENTURY ELECTRIC CO.

SPACE 909

PRODUCTS to be featured—

Complete line of electric motors for air conditioning industry.

WHO will be there—

Geo. Smith, executive vice president; R. J. Russell, vice president and secretary; J. L. Woodress, director of sales; S. M. Jones, vice president; E. S. Moore, general sales manager; A. Neher, sales promotion manager; I. S. Adelberg, regional sales manager; Warren H. Moore and R. L. Biller, district sales managers.

CHICAGO SEAL CO.

SPACE 323 & 325

PRODUCTS to be featured—

Enlarged line of replacement valve plates; seals and valve plates.

WHO will be there—

Felix Wierman; Russ Cook; Dwight Orr; Willis Stafford; Herman Goldberg.

CLEVELAND GRAPHITE BRONZE CO.

SPACE 921

PRODUCTS to be featured—

Bearings and bushings for use by manufacturers of refrigerating equipment.

WHO will be there—

L. W. Christenson, sales manager; Arthur E. Gibbs and Charles L. Smythe, assistant sales managers.

SPECIAL ACTIVITIES—

Exhibit will include projected colored slides of the company's plant.

CLEVELAND REFRIGERATOR CO.

SPACE 915

NEW PRODUCTS to be introduced—

Dual temperature walk-in cooler.

OTHER PRODUCTS to be featured—

Normal temperature walk-in cooler.

WHO will be there—

Charles Demetry; Ed. Smith.

COLBAR, INC.

SPACE 108 & 110

PRODUCTS to be featured—

Three models of Colbar dry beverage coolers—remote 34 case, remote 25 case, and self-contained 25½ case, of varying colors.

WHO will be there—

J. W. Tracy, vice president and general manager; R. L. Hunter, commercial sales manager; J. H. Shaw, sales manager.

COLEMAN EQUIPMENT CO., INC.

SPACE 1219-A

PRODUCTS to be featured—

"Tuthill" ice cream counter freezers in



G. J. ROCHE
President

REWA Members To Name New Officers, Directors



J. F. WICKHAM
Vice President

ACTIVITIES connected with the 13th annual meeting of the Refrigeration Equipment Wholesalers Association, to be held in Cleveland in conjunction with the 5th All-Industry Show, will commence with committee meetings on Saturday, January 24, and conclude with regional meetings on Wednesday, January 28.

Sandwiched in between these two dates will be a full schedule of both business and social activities for refrigeration wholesalers.

REWA's trade relations committee will start that association's ball rolling when it convenes in Parlor B of the Hotel Statler, REWA headquarters during the Show week, at 2 p.m. on Saturday, January 24. Time and date for the meeting of the manufacturer's relations committee was not yet set when this issue of *The Refrigeration Industry* went to press, but the place will be Par-

lor B of the Statler.

On Sunday, January 25, REWA's board of directors will meet at 9 a.m. in the Statler's Tavern Room. Final registration for Association members will take place from 8 a.m. to 12 noon on the following day, Monday, January 26.

First session of the group's annual meeting will commence at 9 a.m. on Tuesday, January 27, and will be followed by a luncheon for REWA members only at 12:30 p.m. Second session of the annual meeting will begin at 2 p.m., and will feature the election of new officers and directors.

REWA's annual cocktail party and banquet, also for members only, will be held at 7 p.m. on Tuesday, January 27. New officers and directors of the Association will be presented during the banquet.

SEE THE

Hit of the Show **PEERLESS!**

**January 26 - 29
1948**



● Under the PEERLESS colors of orange and black at the All-Industry Refrigeration and Air Conditioning Exposition, you'll again find the new products you desire. Peerless of America production is geared to give you equipment of the quality and the quantity YOUR market requires. Visit us at the PEERLESS booth. We want to see you because we are ready with products which will be the headline attractions of 1948!

PEERLESS of AMERICA, Inc.

General Sales Offices

2901 LAWRENCE AVE., CHICAGO 25, ILLINOIS

WHEN THEY TRIP—THEY GRIP



This is the "coming-out party" for our new walk-in Lock No. 4778, shown at the right. A little smaller than No. 4774, but it's a real powerhouse—perfect for a great many walk-in jobs, including the "personal" type. And it SAVES almost half the cost of some larger models.



No. 4774—12 $\frac{1}{2}$ " over all



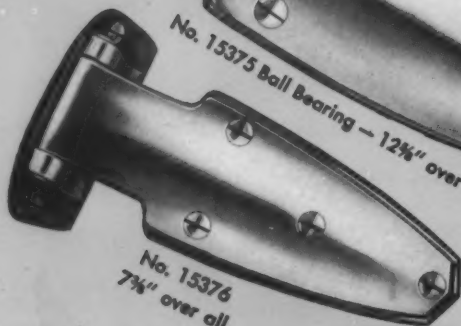
No. 4778—9" over all

Living Action

• THAT'S THE WAY TO "HANDLE"
WALK-IN DOORS



No. 15375 Ball Bearing—12 $\frac{1}{2}$ " over all



No. 15376
7 $\frac{3}{4}$ " over all

And when you say "Living Action", you mean locks by Grand Rapids Brass! This exclusive automatic locking principle gives positive closing . . . seals the cold in . . . operates at the touch of a finger, even on the heaviest doors.

Engineered for a lifetime of rough-house commercial abuse. What's more, it's the handsomest hardware on the market . . . with its clean lines and mirror-smooth chrome.

A padlock bail provides positive, theft-proof protection for any door on which these locks are installed. Our No. 4552 Push Rod (not shown) fits both locks with an interior safety release.

Available from your jobber. Or write us TODAY for full specifications and installation data.

Grand Rapids Brass Company

Makers of Dependable Refrigerator Hardware for over 40 Years

Grand Rapids 1, Michigan



W. W. FARR
President

Contractors Schedule Full Program of Discussions



E. S. WRIGHT
Vice President

SECOND annual meeting of the National Association of Refrigeration Contractors will be held in Cleveland January 25 through 27 in conjunction with the 5th All-Industry Refrigeration & Air Conditioning Exposition.

Jumping the gun on the Show itself, which does not commence until January 26, the contractors' group has scheduled the registration for its convention on Sunday, January 25, beginning at 9 a.m. and continuing all day. Meetings of the Association's board of directors and of its various committees also will be held on Sunday.

The annual meeting itself will get under way at 9:30 a.m. on Monday, January 26. This meeting will feature

a report from the NARC president, Warren W. Farr, and also a number of speakers yet to be announced.

At 12:30 p.m. on this same day, Monday, the Association is sponsoring a luncheon meeting for the press.

NARC's annual meeting will conclude on Tuesday, January 27 (commencing at 9:30 a.m.), and this portion of the program will include more speakers, a full list of committee reports, and election of the Association's directors.

The entire NARC program will be conducted at the Allerton Hotel, which will serve as that organization's headquarters during the Show.

three sizes; ice cream hardening cabinet.
WHO will be there—

J. A. Coleman, president; Carl A. Anderson, secretary-treasurer; Irving Edgar, vice president; Eugene Snider, chief engineer; Anthony J. Schneller, representative.

COOLSTREAM CORP.

SPACE 1006

NEW PRODUCTS to be introduced—
New bottle type water cooler.



OTHER PRODUCTS to be featured—
Pressure type water cooler.

WHO will be there—
Lyonel L. Berken, president.

COPELAND REFRIGERATION CORP.

SPACE 703 & 705

NEW PRODUCTS to be introduced—
"Copelametic" condensing units in range from 3 to 7½ hp.; heat pumps for residential heating and cooling.

OTHER PRODUCTS to be featured—
Commercial refrigerating units, both open and hermetic; electric water coolers; electric refrigerators.

WHO will be there—
H. E. Thompson, president; F. J. Gleason, vice president in charge of sales; O. H. Buschmann, vice president in charge of engineering; C. C. Curtis, vice president in charge of production; W. G. Von Meyer, sales and advertising manager; R. G. Berg, assistant sales manager; G. L. Hickey, Jr.; W. V. Galvin; Bert Kaple; Geo. W. Chandler.

CORDLEY & HAYES

SPACE 401

NEW PRODUCTS to be introduced—
Model HCS-10 and HBCS3 hermetic electric water coolers with completely sealed refrigeration system.

OTHER PRODUCTS to be featured—
Electric water coolers with conventional open type refrigeration system.

WHO will be there—
C. M. Cordley, president; W. C. Moore, vice president; W. J. Mays, secretary and treasurer; C. A. Harris, national sales manager; R. M. Corby, service manager; S. A. Whitt, chief engineer.

CROWN REFRIGERATOR CORP.

SPACE 318

NEW PRODUCTS to be introduced—
Stainless steel reach-ins; farm freezers; beverage coolers.

WHO will be there—
J. M. von Bergen, president; H. Green, director of sales; T. J. Taaffe, chief engineer.

CURTIS REFRIGERATING MACHINE DIV.

SPACE 210, 212 & 212

PRODUCTS to be featured—
3, 5, and 10-ton packaged air conditioning units; air and water cooled commercial condensing units; operating model demonstrating patented pressure compressor lubricating system.

WHO will be there—
H. C. Morrison, vice president; H. J. Nettler, assistant sales manager; K. T. Rockey, New York district manager; C. W. Stover, manager, Chicago district office; M. C. Jones; N. H. Behrend; F. J. T. Stock; G. W. Schultz; A. C. Kniseley; Geo. C. Helde.

SPECIAL ACTIVITIES—
Private sales meeting of direct employees.

CUTLER-HAMMER, INC.

SPACE 128

PRODUCTS to be featured:
Complete line of refrigeration controls, domestic, semi-commercial and commercial,

plus various accessories and auxiliary equipment. Exhibit will include a jumbo size model of the C-H universal replacement control.

WHO will be there:

P. S. Jones, vice president in charge of sales; A. R. Johnson, manager, merchandising sales; R. M. Van Vleet, manager, refrigeration sales; R. J. Eckstein, Cleveland; J. P. Simon, Philadelphia; L. P. Nissen, advertising manager; W. R. Reinhold, assistant manager, refrigeration sales; E. A. Clark, Grand Rapids; R. A. Volbrecht, New York; M. Dugliss and W. Stark, Detroit.



DAVISON CHEMICAL CORP.

SPACE 311 & 313

PRODUCTS to be featured—
PA-100 refrigeration grade silica gel drying agent for refrigerants.

WHO will be there—
R. D. Goodall, sales manager; W. E. Hathaway, director of technical services; J. C. Carroll; E. E. Thompson; Page Edmonds; Hubert C. Schuckle, vice president of Emery Advertising Co.

DAY & NIGHT MFG. CO.

SPACE 225

NEW PRODUCTS to be introduced—
Drinking fountains and restaurant drinking water coolers.

OTHER PRODUCTS to be featured—
Heavy duty water coolers.

WHO will be there—
J. W. Rubenson, manager refrigeration division; W. J. Lambert, director sales promotion and advertising.

DAYTON RUBBER CO.**SPACE 415 & 417**

NEW PRODUCTS to be introduced—

V-Belts made with rayon cord.

WHO will be there—

T. C. Davis, vice president; J. T. Wilson, Dayton zone manager; W. J. Michel, Dayton district manager; K. L. Bohler, Cleveland district manager.

DETROIT LUBRICATOR CO.**SPACE 503 & 603**

PRODUCTS to be featured—

Expansion valves, solenoid valves and refrigeration controls.

WHO will be there—

C. H. Hodges, Jr., president; E. J. Doucet, vice president and gen. sales manager; G. E. Cago, vice president and manager eastern office; K. B. Thorndike, vice president and manager western office; F. G. Coggin, manager refrigeration div.; F. Y. Carter, chief sales engineer, refrigeration div.; and territory sales representatives.

EBCO MFG. CO.**SPACE 203, 205, 303 & 305**

NEW PRODUCTS to be introduced—

Models OP-5, OP-10-W, OP-10-V and OB-4-V electric water coolers.

OTHER PRODUCTS to be featured—

Models OP-10, OB-4, OP-20B and OP-20G water coolers. Special cutaway demonstrator Model OP-10 with cabinet cut away and glass panels installed in cabinet sides.

WHO will be there—

A. R. Benua, president and general manager; L. C. Love, general sales manager; W. L. Winchester, assistant sales manager; T. W. Giller, sales engineer; C. G. Fosnaught, sales engineer; R. D. Gray, Leo J. Freitas, Ray S. Graham, John P. Rainbault, M. C. Balch, Bert J. Clark, Robert L. Coon, J. R. Siegert, district sales managers.

ELECTRIMATIC DIV.**SPACE 215**

NEW PRODUCTS to be introduced—

Completely new line of silica gel filled dehydrators, line strainers, charging hose, and refrigerant solenoid valves.

OTHER PRODUCTS to be featured:

A newly revised line of water regulating valves.

WHO will be there—

H. L. Beekley, vice president and general manager; M. B. Madden, sales manager; R. H. Lacart, sales engineer; B. J. Johnson, sales engineer; C. R. Peterson, W. A. Griffin, A. L. Brown, W. D. Keefe, F. B. Riley, R. G. Dinham, G. E. Tierney, L. H. Roberts, and L. V. Russell, sales representatives.

**ESTON CHEMICALS, INC.****SPACE 224**

NEW PRODUCTS to be introduced—

Low pressure "Aerosol" can.

OTHER PRODUCTS to be featured—

Methyl chloride, sulfur dioxide, and methylene chloride refrigerants.

WHO will be there—

G. S. Wheaton, vice president; W. E. Horn, manager of refrigerant sales.

SPECIAL ACTIVITIES—

Meeting of district representatives.

EVANS MFG. CORP.**SPACE 1119**

NEW PRODUCTS to be introduced—

Full vision display case; full vision self service case; dairy wall case.

WHO will be there—

Joseph Eventoff, treasurer; David Goodman, secretary.

FEDDERS-QUIGAN CORP.**SPACE 403**

NEW PRODUCTS to be introduced—

Unit air conditioners—½-ton window model, ¾-ton window model, and ¾-ton console model.

OTHER PRODUCTS to be featured—

Unit coolers, regular and panel type; condensers; "Clip-on" superheat thermometer.

WHO will be there—

E. R. Walker, vice president; R. W. Morgan, chief engineer; E. A. Bonneville, sales manager, unit air conditioning and refrigeration div.

FLEETWOOD-AIRFLOW, INC.**SPACE 911**

NEW PRODUCTS to be introduced—

Fish and poultry case; delicatessen case; dry beverage cooler; open display case; wall dairy case.

OTHER PRODUCTS to be featured:

Double duty display case; reach-in refrigerator; walk-in cooler.

WHO will be there—

Louis L. Popky; Charles S. Popky; Joseph J. Schmidt.

FOGEL REFRIGERATOR CO.**SPACE 1021**

NEW PRODUCTS to be introduced—

Model 5800 self-service refrigerated open display case.

OTHER PRODUCTS to be featured—

Model R-10 reach-in refrigerator; Model RW-7 wall case; walk-in coolers; model 4300 Lowboy (a counter height case); Model 5000 6 ft. display case.

WHO will be there—

W. F. Fogel, president; S. H. Batt, sales manager.

FRANKLIN REFRIGERATION CO.**SPACE 1120**

NEW PRODUCTS to be introduced—

Dairy case; milk cases.

G. B. HERMAN
President

Banquet to Highlight First Annual NCRSA Meeting

R. H. MUEHLBERG
Executive Secretary

FIRST annual banquet of the National Commercial Refrigerator Sales Association, newly formed organization of dealers and distributors of commercial refrigeration equipment, will highlight that group's activities at the 5th All-Industry Refrigeration & Air Conditioning Exposition to be held January 26-29 in Cleveland.

This banquet, planned as the first of a series of such events to be sponsored by this association, will be held on Tuesday, January 27, at the Carter Hotel.

Plans for the banquet program still were decidedly indefinite as this issue of *The Refrigeration Industry* went to press, but according to tentative arrangements R. H. Muehlberg, executive secretary of NCRSA, will

function as master of ceremonies and George B. Herman, the association's president, will be one of the principal speakers.

Some prominent Cleveland or Ohio personage is being sought by the group to deliver a welcoming address to the banquet-goers, but definite arrangements for this phase of the activities had not been completed by press time. George Taubeneck, editor and publisher of "Air Conditioning & Refrigeration News," will give a short talk. Ernest Stultz, president of Viking Refrigerator Co., also is being considered as a banquet speaker.

All NCRSA meetings and other activities will be held at the Carter Hotel, despite the fact that most Association members will be staying at the Auditorium Hotel.



Pre-sold by consistent advertising and trade-wise reputation, Copeland units are in constant demand. They also open the door to sales of associated equipment and installations.

When you offer Copeland to prospects, you're half-way home to an order. Have the unit for every purpose with Copeland's complete line. Sell the economy, smooth operation and long life of Copeland. Immediate delivery on 1 to 7½ h.p. units.

Copeland
DEPENDABLE *Electric* REFRIGERATION

SEE OUR FULL LINE AT THE SHOW

COPELAND REFRIGERATION CORPORATION, SIDNEY, OHIO

OTHER PRODUCTS to be featured—
Frozen food cabinets; ice cream cabinets.

WHO will be there—
B. Katz, sales manager.

FRIGIDAIRE DIV., SPACE 1217

NEW PRODUCTS to be introduced—
DB-360 beverage cooler; HJ-8B home freezer; MM3-1 "Meter-Miser" compressor.

OTHER PRODUCTS to be featured—
SC-501 air conditioner, BR-3 water cooler; UR25JD ice cream cabinet, FW6J compressor; CO-820 condenser; AWF-250 compressor.

WHO will be there—
J. B. Nahstoll, Exhibit manager; W. F. Switzer, Commercial sales manager; A. C. Freimann, G. A. Hayner, C. F. Wood, M. C. Schenck, sales department.

GENERAL CONTROLS CO. SPACE 314

PRODUCTS to be featured—
Electric stop valves for all refrigerants; thermostatic expansion valves; water valves; pressure and temperature controls.

WHO will be there—
John M. Schlemmer, divisional sales manager; refrigeration; E. B. Maire, Chicago branch manager; field engineers.



GENERAL ELECTRIC CO., APPARATUS DEPT. SPACE 416 & 418

PRODUCTS to be featured—
Fractional-horsepower motors; hermetically sealed motors; integral-horsepower motors; typical control devices, which will include a selector panel and the new motor control center with interchangeable units; halogen leak detector; refrigerator autotransformers.

WHO will be there—
N. L. Parker, in charge of commercial activities; G. A. Requa, exhibit supervisor.

GENERAL ENGINEERING & MFG. CO. SPACE 315, 317 & 319

NEW PRODUCTS to be introduced—
"Miracula" heat pump.

OTHER PRODUCTS to be featured—
Packaged air conditioners (3 & 5 tons).

WHO will be there—
Norman Schreiber, chairman of board & general manager; J. Y. Hewitt, general sales manager; J. H. Schreiber, president; Ernest Gyax, chief engineer; Art Huhn, research and development engineer; Pete Becker, plant superintendent; James Lamb, service manager; F. H. Eldredge, manager, sales promotion; C. H. Fox, C. J. LeMaster, M. W. Nerids, C. J. Davis, H. B. Osmunsen, regional sales managers.

L. H. GILMER CO. SPACE 1010

NEW PRODUCTS to be introduced—
Wire cord sets and power supply cord displayed from a new counter display stand, in assortments.

OTHER PRODUCTS to be featured—
V-belts, in assortments.

WHO will be there—
L. K. Youse, manager; H. B. Allison, sales manager; E. F. Wood, assistant sales manager; H. W. Weihenmayer, advertising manager; A. B. MacFarland, division manager; W. F. Davis, N. R. Chapman, W. E. Mettler, G. C. Fritschmann, R. L. Bentz, G. A. Grone, district managers.

SPECIAL ACTIVITIES—
Gilmer distributors breakfast, Tuesday, Jan. 27, at 8:30 A. M. at Hotel Cleveland.

GRAND RAPIDS BRASS CO. SPACE 223

NEW PRODUCTS to be introduced—



W. W. ALLISON
President

Wide Variety of Educational Topics on RSES Agenda



W. B. MARSHALL
1st Vice President

THE Refrigeration Service Engineers Society will hold its 10th annual convention in Cleveland on January 21 through 24, immediately prior to the 5th All-Industry Refrigeration & Air Conditioning Exposition which commences January 26.

This procedure follows the pattern set by the RSES when it held its 9th annual meeting just prior to the 4th All-Industry Show in October of 1946, and is aimed at preventing the full RSES program from interfering in any way with the activities of the Show itself.

The Buckeye (Ohio) State Association, although less than a year old, will serve as host to this year's meeting, with its Cleveland chapter in charge of local arrangements. RSES headquarters during the period of its annual meeting and of the Show itself will be at the Hotel Hollenden.

Highlights of the Society's extensive educational conference will be talks on such subjects as leak detection, refrigeration of fresh meats, two and three stage systems, solids in refrigerating systems, truck refrigeration, water towers and evaporative condensers, and safety in refrigeration service work.

Speakers on this program will include: Dr. W. O. Walker, director of research, Ansul Chemical Co.; A.

M. Fenwick, refrigeration consultant, Cleveland; Al Sawyer, engineer, Dole Refrigerating Co.; A. M. Schmitz, eastern engineer, Electric Div., Servel, Inc.; George Schuld, Sr., refrigeration engineer, Cleveland; Paul B. Reed, Perfex Corp.; George Clark, director, Detroit Air Conditioning Institute; and John Spence, service manager, Hussman Refrigeration Co.

"Warm-up" sessions preceding each day's educational program will consist of question-and-answer periods during which a "board of experts" will endeavor to offer practical solutions to individual service and installation problems.

Rounding out this busy educational schedule will be optional visits to various local refrigeration manufacturing plants and to outstanding refrigeration installations in the area.

Despite this packed program, social activities will not be neglected. This year's "get-together" party and dinner will be held Wednesday evening, January 21. The Society's annual dinner-dance will be held on Friday evening, January 23. All ladies attending the convention, whether or not they are members of the RSES Auxiliary, are cordially invited to participate in all of these entertainment functions.

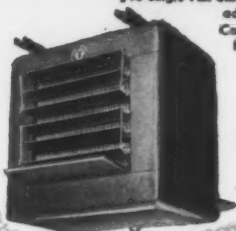
Visit Booth 423 at the Cleveland Refrigeration Exposition

Be on hand at 2 P. M. Monday to see the wraps taken off another outstanding TENNEY product.

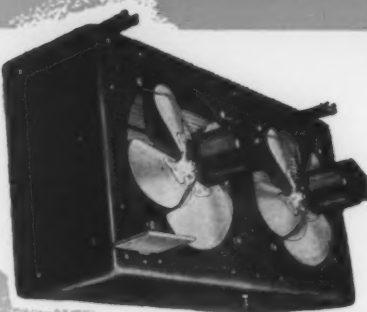
Wall Mounted Panel Unit
—Baked White Enamel.
Sturdy construction—
gentle air movement.



#16 Single Fan Unit Cooler with
adjustable louvers.
Capacities to 30,000
B.T.U. per hour.



#200 Two-Fan Unit
Cooler. Capacities
to 55,000 B.T.U.
per hour.



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TOP QUALITY PRODUCTS
protect your reputation

Distinctive features of the Tenney Line—Top Quality, Flexibility in application and Maximum Efficiency—and engineering "know-how" we're always glad to share.

ASSURED PERFORMANCE Nothing is left to chance in developing Tenney products. They are laboratory tested, then thoroughly tested in the field, to be sure they are right—to benefit all users—to protect your reputation.

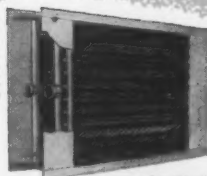
This sound engineering procedure is responsible for such outstanding successes as the Tenney Thermostatic Expansion Valve—the most efficient thermostatic expansion valve in the field of refrigerant control; and the Tenney Mullion Unit for reach-in refrigerators, back bars, beverage coolers, and similar applications.

TENNEY UNIT COOLERS The only Unit Coolers insulated on bottom and sides for greater efficiency. Conservatively rated, in capacities up to 55,000 B.T.U. per hour. Supplied in sizes with one or two fans—with or without directional louvers.

SEND FOR BULLETINS Bulletins are available on all Tenney Products. Engineering assistance gladly provided on difficult applications or large installations. Write for Catalog CD148 or detailed Bulletins on Tenney products shown here.

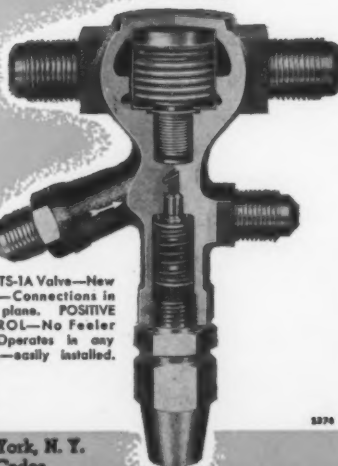


All Copper Ice Maker with
booster coil—Quick freezing—
properly engineered
for long service. Frozen
food compartments.



Tenney TS-1A Valve—New
Model—Connections in
same plane. POSITIVE
CONTROL—No Feeler
Bulb. Operates in any
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Air Conditioning and Heating
Coils for a large
variety of applications.



New Mullion Unit—All-Purpose Cold Air Diffuser
—17" deep, 4-inch body; 8-inch air intake. Variable
Height. Capacities 1400-3000 B.T.U. per hour at
15° F.D.



Coil and Fan Combinations
—Ideal for fresh food storage.
Sizes for every load
condition.

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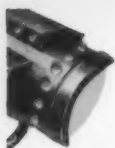
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BOOTH 613
Penn BRASS & COPPER COMPANY

One
TUBING IS
"SUPERIOR"



'Superior' Tubing and Papco Tube Tools will be in the limelight when the curtain is drawn on Booth #613 at the Cleveland All Industry Exposition, January 26-29, 1948. Penn Brass and Copper Company will welcome all their friends, both old and new.

MAKE A DATE FOR '48. Not just this year, but for over a quarter of a century, Penn has been producing clean and bright, dry, easy bending and seamless tubing that is 'Superior'. For a truly profitable new year, turn to 'Superior' for the utmost in fine tubing. Once you have tried 'Superior', you'll agree it is what its name implies. 'Superior' will give your product limitless advantages for remember, it is four ways better. Get the jump on the market in '48—use 'Superior' for trouble free installations. Available in straight lengths or coils, 1" O. D. to capillary .093" O. D. Visit the Penn Booth #613 at the All Industry Exposition in Cleveland. You will find 'Superior' tubing and the new Papco tube tools on display. See for yourself—there is only one 'Superior' tubing.

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PENN

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ERIE, PENNSYLVANIA • Phone 35-111

Proud of your service truck? Here's your chance!

DO YOU have a service truck you're proud of? Then here's your chance to show it off to other service organizations, and maybe win a prize on it besides.

In connection with its convention in Cleveland at All-Industry Show time, the Refrigeration Service Engineers Society will stage a display of service trucks, both custom-built

and home-made, adjacent to its Hollenden Hotel headquarters.

If you have a good service truck, either custom-built or constructed by your own organization, drive it to the convention. Accommodations will be provided for its display and storage. Only restriction is that the truck be a pickup panel type job of one ton or less.

Prizes for the best truck in both classes will be awarded by popular ballot of those visiting the displays.

Here's a chance for you to show other service engineers how you handle your service truck problem.

If you're interested in displaying your truck, notify R. D. Hollingsworth, 1672 Wyandotte Ave., Lakewood 7, Ohio.

New items of hardware for commercial refrigeration.

WHO will be there—

George B. Nelson, general manager; G. H. deGraaf, sales manager; W. B. Jones, assistant sales manager; Otto M. Wenk, W. D. Keefe, representatives.

HALSTEAD & MITCHELL SPACE 425-A

NEW PRODUCTS to be introduced—

Self-contained 5-ton industrial water cooling unit with a cleanable feature; double-tube counter-flow condenser for marine application.

OTHER PRODUCTS to be featured—

Double-tube counter-flow cleanable water-cooled condensers.

WHO will be there—

Bryon Halstead, general manager; Fred Halstead, production director; William Rapp, assistant production manager; D. Centry, field representative; Thomas Scott, eastern representative; Charles Wilmes, midwestern representative; Hugo Smith, northern midwest representative; Wilton L. Ledbetter, southwestern representative; Merle G. Haynes, west coast representative.

HEAT-X-CHANGER CO., INC. SPACE 125

NEW PRODUCTS to be introduced—

"Heat-X" cooler-carbonator; bottle water cooler with ice maker and cold compartment.

OTHER PRODUCTS to be featured:

Water coolers; soda fountain coolers; beer coolers; heat exchangers.

WHO will be there—

Cecil Boling; L. G. Underhill; J. R. Reilly; C. L. Babin; J. K. Campbell; H. I. Schmidt; M. E. Corbin; F. C. Hawk; J. A. Mulcahey; W. J. Donovan.



HENRY VALVE CO. SPACE 227

NEW PRODUCTS to be introduced—

Special devices for beverage vending machines such as dual and triple stainless steel solenoid valves, stainless steel relief valves, stainless steel check valves, and others.

OTHER PRODUCTS to be featured—

Packless valves; driers; strainers; ammonia valves; sintered filter-driers; drier-accumulators; solenoid valves.

WHO will be there—

Guy J. Henry, president; C. V. Gary, vice president; R. S. Dawson, vice president; G. W. Wheeler, export manager; C. W. Hudzietz, eastern district manager; E. A. Flesch, J. Endweiss, H. F. Stamps, D. R. Byth, N. Beals, C. H. Boys, A. A. Ways, field engineers.



HIGHSIDE CHEMICALS CO. SPACE 321

PRODUCTS to be featured—

"Thawzone, liquid dehydrant; "trace," refrigerant leak detector.

WHO will be there—

Laurence V. Gardner, general manager; Harry M. Katon, office manager; representatives—A. W. Barber, Delavan Engineering Co.; L. D. Greenwood, Robbins-Greenwood Co.; Merle G. Haynes, Pacific Factors; Joe E. Parker.

HUDSON PRODUCTS CO., INC. SPACE 502

NEW PRODUCTS to be introduced—

3-way drink dispenser, a mixing faucet for bars and fountains.

OTHER PRODUCTS to be featured—

Constant pressure carbonator; self-contained refrigerated drink dispenser featuring 3-way mixing faucet and carbonator.

WHO will be there—

James L. Hudson, president; Charles W. Hall, secretary-treasurer; Phillip F. Bender, factory manager; Ludwig Stromayer, Chemical engineer; William Coffey, assistant engineer; Raymond B. Hill, field representative.

IMPERIAL BRASS MFG. CO. SPACE 426 & 428

NEW PRODUCTS to be introduced—

Improved drier and new tubing tools.

OTHER PRODUCTS to be featured—

Valves; driers; filters; liquid indicators; floats; tube fittings; tubing tools; charging and testing equipment; soldering and welding equipment.

WHO will be there—

C. H. Benson; M. Mitchell; K. Waugh; G. Duerr; T. A. Byrnes; F. Wilson; T. Fuite; E. F. Todd.

JACK & HEINTZ PRECISION INDUSTRIES, INC.

SPACE 908

NEW PRODUCTS to be introduced—

1/2-hp condensing unit; 1/10-hp hermetic unit.

OTHER PRODUCTS to be featured—

1/4-hp condensing unit; 1/8-hp condensing unit; ball bearings; fractional horsepower motor.

WHO will be there—

Lawrence W. Brock, sales manager, refrigeration div.; Lawrence C. Anderson and Joseph Chase, refrigeration sales div.; Wm. Davis, salesman; Herman Schroeder, general service manager; John Mackinley, assistant general service manager; Jack Clarke, service representative; Wm. H. Gibbons, display manager.

SPECIAL ACTIVITIES—

Open house at Jack & Heintz plants during Exposition.

JAMISON COLD STORAGE DOOR CO.

SPACE 1111

NEW PRODUCTS to be introduced—

"Lo-Temp" door of infitting type for use in applications where temperatures of zero and below are encountered.

OTHER PRODUCTS to be shown—

Regular line of cold storage doors.

WHO will be there—

J. V. Jamison, III, president; Fred H. Wagner, Jr., vice president and general sales manager; and the following district managers—Stanley Baldwin, Chicago; P. J. Duffy, Hagerstown, Md.; Leo S. Borsage, Atlanta; Arthur S. Fielding, Cleveland; Arthur F. Dreyer, Cincinnati.



JARROW PRODUCTS SPACE 322

NEW PRODUCTS to be introduced—

Gasket corner cutter; display stand for gaskets.

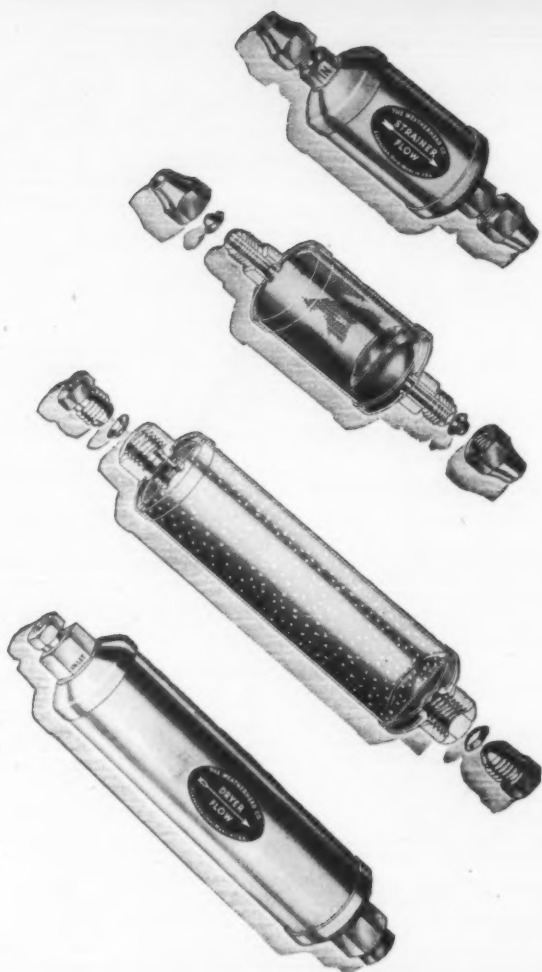
OTHER PRODUCTS to be featured—

Full line of refrigerator door gaskets; sponge rubber tubing; specialized gaskets for original equipment and replacements.

WHO will be there—

Col. Harry W. Jarrow; Stanley L. Jarrow, general manager; Richard Nosek, superintendent; Myles A. Jarrow, office and credit manager.

Weatherhead leakproof dryers and strainers insure easy flow of refrigerant



WEATHERHEAD dryers and strainers are leak-proof because they are constructed of seamless steel tubing with formed steel ends and multiple screens, hydrogen brazed into an integral assembly. They have no soft solder seams or gaskets.

The Silica Gel drying agent used in Weatherhead Dryers insures free flow of the refrigerant because it does not powder or break down. No organic filters or felts are used which might in themselves, clog or impede the flow of the refrigerant. This assures minimum pressure drop.

Weatherhead dryers and strainers are corrosion proof. Dryers are made in both rechargeable and non-rechargeable types.



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FOR THIS
BOOK**

The complete history of Weatherhead's development, testing and engineering facilities are completely explained in our new book entitled, "Prospecting for Perfection" Free copy sent on request.

Look Ahead with

Weatherhead

THE WEATHERHEAD COMPANY, CLEVELAND 8, OHIO



CLEVELAND • NEW YORK • DETROIT • CHICAGO • LOS ANGELES

ATTENTION REFRIGERATION ENGINEERS!

We manufacture valves, dehydrators, strainers, manifold assemblies, accessories and fittings—an extensive line of original equipment for the refrigeration industry.

JORDON REFRIGERATOR CO. SPACE 906

NEW PRODUCTS to be introduced—

1948 models of wall dairy case; improved freezer models and frozen food display cases; full vision display cases; double duty display cases; enlarged line of reach-in refrigerators; beverage coolers.

WHO will be there—

Albert Fogel, vice president in charge of sales; Robert Duffy, national sales manager; Alfred Levin, advertising manager; Maurice Zatko, export manager; Frank Fogel, president; Harry Fogel, treasurer and purchasing agent; Harry Hanover, eastern factory sales representative; Theodore I. Gruber, north Atlantic states factory sales representative; Samuel Michael, middle Atlantic states factory sales representative; Henry Fuerlicht, southeastern divisional sales manager; Samuel Chernoff, Florida sales representative; H. G. Borck, southern sales representative; Lewis Girion, Ken Adams, Frank Murphy and Tibor Weiss of the midwestern sales office; James Bertha of southwestern sales division.

SPECIAL ACTIVITIES—

Sales meetings for factory sales agents and distributors. Showing of motion picture of factory operations and of completely new 1948 line.

KASON HARDWARE CORP. SPACE 208

NEW PRODUCTS to be introduced—

"Super Freezer" hardware; home and farm freezer hardware.

OTHER PRODUCTS to be featured—

Walk-in and reach-in refrigerator hardware.

WHO will be there—

A. S. Katz, president; A. Sonabend, treasurer; A. J. Katz, general manager.

KEROTEST MFG. CO. SPACE 220 & 222

NEW PRODUCTS to be introduced—

In-line refrigerant 2-way shut-off valve; variable bolt hole compressor valve; integral forged manifold; light weight globe valve.

OTHER PRODUCTS to be featured—

Regular line of refrigerator and air conditioning valves and fittings.

WHO will be there—

G. E. Allen, general sales manager; H. M. Jones, sales manager refrigeration div.; R. W. Mueller Jr., advertising manager; Austin Jones, Karl Berquist (Chicago), Joe Blake (St. Louis), A. B. Harvey (New York), Leo Freitas (Southwest), R. G. Gripp (York), Leo Freitas (Southwest), R. W. Gripp (Penna. and western N. Y.), salesmen.



KINETIC CHEMICALS, INC. SPACE 216

PRODUCTS to be featured:

"Freon" refrigerants.

WHO will be there—

R. J. Thompson, sales manager; R. L. Williams, assistant sales manager.

KLEEN-KUT MFG. CO. SPACE 209

NEW PRODUCTS to be introduced—

JANUARY, 1948

Largest meat chopper in the world.

OTHER PRODUCTS to be featured—

Electric meat saws; electric meat choppers.

WHO will be there—

Louis Faulb, president; J. Faulb, treasurer; H. Henrichs, assistant secretary.

SPECIAL ACTIVITIES—

Open house at plant in Cleveland.

KOLD-HOLD MFG. CO. SPACE 411 & 413

PRODUCTS to be featured—

Plate type evaporators for both truck and stationary applications, and a new production method (copper hydrogen, brazed plates).

WHO will be there—

J. R. Tranter, president; E. A. Thiele, sales manager; C. K. Davis, assistant sales manager; L. S. Worthington, director of advertising; J. C. Jackson, New England and metropolitan New York representative; J. C. Hoover, Philadelphia and eastern seaboard representative; R. D. Spitzer, Detroit and central states representative; T. O. Lester, Chicago and adjacent central states representative; A. L. Golay, midwest representative; Leo Freitas, Texas representative; A. J. Nelson, Denver and Rocky Mountain states representative; J. J. McQuaid and T. Schroeder, Pacific representatives.

THE ALL-INDUSTRY BANQUET

AN ALL-INDUSTRY banquet for 1,800 persons, January 28, will highlight a busy week of parties, luncheons, dinners, conventions, and committee meetings which will be held in Cleveland in connection with the 5th All-Industry Refrigeration and Air Conditioning Exposition.

Scene of the banquet will be the vast arena floor of the Cleveland Public Auditorium, where there will be entertainment from 7:30 p.m. to 1 a.m., featuring two well-known bands and numerous entertainment acts.

The all-industry banquet will feature a prime roast beef dinner, dancing, and continuous entertainment. An outstanding act on the program will be the Musical Majorettes, a flashy all-girl band which will provide music and entertainment. This nationally-known organization is the official band of the Cleveland Browns football team, and has been heard all over the United States on concert tours.

The large NBC-WTAM orchestra will provide music for dancing. In addition there will be a "beauty shop" quartet, dance team, accordionist, and other first-rate entertainment acts.

KRAMER TRENTON CO. SPACE 116 & 118

NEW PRODUCTS to be introduced—

New design of commercial icemaker and booster coils; new design and application of fractional horsepower fan type evaporators; extra large ceiling type evaporators eliminating necessity of using floor type; major innovation of the radial unit cooler; working model of "Thermobank" automatic

defrost for low temperatures; new design of air cooled condenser.

WHO will be there—

S. Charles Segal, chief engineer; Harry Klingler, sales manager; Israel Kramer, vice president; Nathan Kramer, president; Frank Obert, sales engineer.



LA CROSSE COOLER CO. SPACE 1110

NEW PRODUCTS to be introduced—

Electric direct draw dispenser; dry storage bottle cooler; "Eskimo" ice cube maker.

OTHER PRODUCTS to be featured—

"Economy" combination bottle and key cooler; "Supreme" stainless steel drainboards.

WHO will be there—

W. W. Newberry, secretary and treasurer; W. Bertelson, chief engineer; Henry Phillips, sales representative; L. C. Van Dervoort, sales representative; R. S. Denzer, president.

LARKIN COILS SPACE 710 & 712

PRODUCTS to be featured—

Complete line of coils for refrigeration and air conditioning applications; air conditioning units; forced convection units; polished aluminum disseminator pans; heat exchangers; evaporative condensers; direct expansion water coolers.

WHO will be there—

O. M. Sims, general manager; S. D. Hughes, plant superintendent; C. L. White, chief engineer; E. A. Gustafson, design engineer; J. E. Palmer, salesman.

LEHIGH MFG. CO. SPACE 226 & 228

NEW PRODUCTS to be introduced—

New line of packaged condensing units and new line of heavy duty condensing units.

OTHER PRODUCTS to be featured—

Representative models of condensing unit line from 1/4-hp through 5-hp.

WHO will be there—

Frank Shumann, president; Alvin Shumann, treasurer; J. C. Miller, general manager; C. L. Coulter, assistant general manager; district managers—E. R. Murphy, L. M. Bissett, F. J. Buckley, O. R. Heilgman, C. F. Schneider, O. J. Kesti, C. B. Coombs, T. A. Mayes, R. T. Andrews, W. N. MacNeill.

SPECIAL ACTIVITIES—

Sales meeting will be held at Cleveland starting Jan. 23 and 24.

LIBERTY MOTORS & ENGINEERING CO. SPACE 1207

NEW PRODUCTS to be introduced—

Systematized refrigeration plans for commercial applications, featuring the new 1/4-hp and 1/2-hp welded steel housed hermetic compressors. Full displays of commercial applications of refrigeration systems will be shown.

WHO will be there—

H. A. Loebel; Anthony Easton.

LINDE AIR PRODUCTS CO. SPACE 1114

PRODUCTS to be featured—

"Prest-O-Lite" air-acetylene equipment;

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HOW TO FIND YOUR WAY AROUND

SOUTH EXHIBIT HALL

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Brunner Mfg. Co.	304, 306 & 308
Bundy Tubing Co.	407
Butcher Boy Cold Storage Door Co.	101

Chicago Seal Co.	323 & 325
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Curtis Refrigerating Machine Div., Curtis Mfg. Co.	210, 212 & 214
Cutler-Hammer, Inc.	128

Davison Chemical Corp.	311 & 313
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Kold-Hold Mfg. Co.	411 & 413
Kramer Trenton Co.	116 & 118

Lehigh Mfg. Co.	226 & 228
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Jas. P. Marsh Corp.	114
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Mills Industries, Inc.	109 & 111
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WHEN THE SHOW

MONDAY, JANUARY

10 a.m. to 2 p.m.	Exclus
2 p.m. to 10 p.m.	

TUESDAY, JANUARY

12 noon to 6 p.m.	Exclus
	Dealer

WEDNESDAY, JANUARY

12 noon to 6 p.m.	
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THURSDAY, JANUARY

10 a.m. to 4 p.m.	
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United Refrigerator Mfg. Co.	511 & 513
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Victory Metal Mfg. Corp.	501 & 601
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Wolverine Tube Div.	505
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American Society of Refrigerating Engineers	1204
Arcade Mfg. Div., Rockwell Mfg. Co.	1216

Bally Case & Cooler Co.	1105 & 1107
Baltimore Aircoil Co., Inc.	1212
Berry Motors, Inc.	1122

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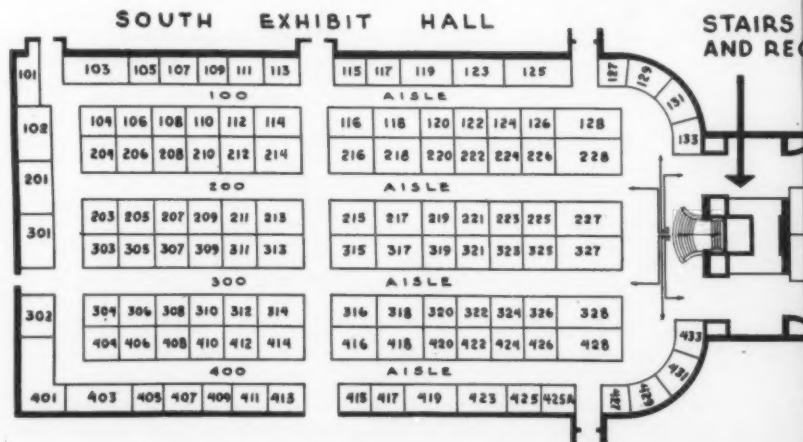
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Evans

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Fogel
Frankl
Frigida

L. H. C

Heatin

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UND THE ALL-INDUSTRY SHOW

IS OPEN

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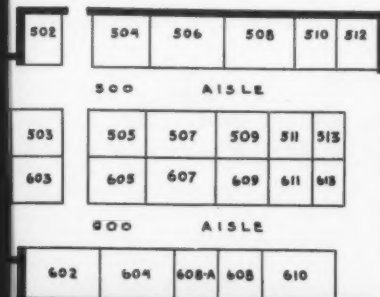
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OM ENTRANCE TRATION LOBBY



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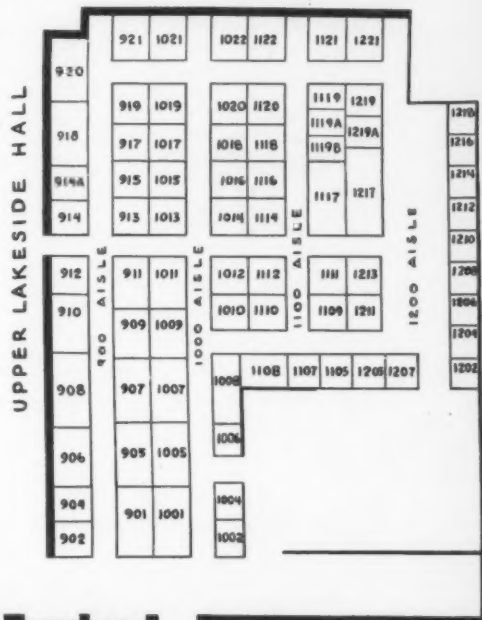
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Weber Showcase & Fixture Co., Inc., 1117

Yoder Co., 1014



UPPER LAKESIDE HALL

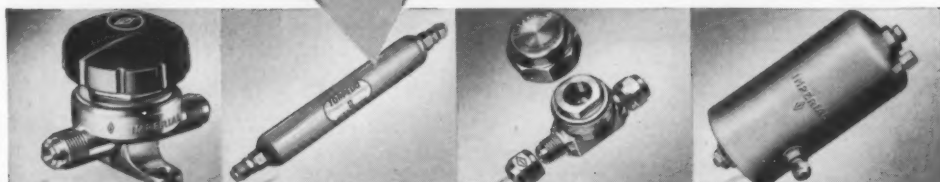
ARCADE

EXHIBITOR SPACE
American Refrigerator & Machine, Inc., 711
Ansul Chemical Co., 713
Copeland Refrigeration Corp., 703 & 705
Larkin Coils, 710 & 712
Minneapolis-Honeywell Regulator Co., 701
Peerless of America, Inc., 707 & 709
Tecumseh Products Co., 708
Wilson Refrigeration, Inc., 702, 704 & 706

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YOUR NEEDS**

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offers you advanced
products that speed
your work and improve
installations . . .

... SEE YOUR JOBBER ...

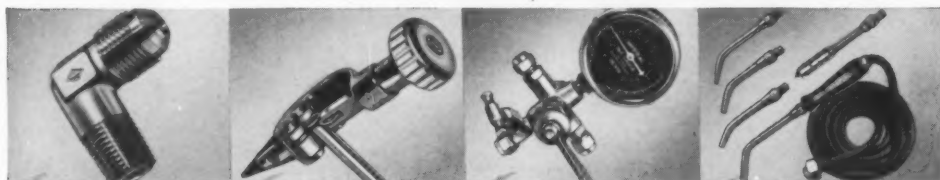


DIASEAL VALVES—The only refrigeration valve that has all these features: No Springs, "Either-Way" Flow, only two moving parts, easy finger-tip action, "million-cycle" diaphragm, inlet and outlet ports in line, both internal parts lift out with bonnet.

TORPEDO DRIERS—The most formidable weapon in the war on moisture. Has one piece copper shell; joints are brazed; charged with dust-free Silica Gel; new metallic depth filtration element, graduated with size of drier; easy to refill, generous wrench holds.

LIQUID INDICATORS—Both single and double-port types. Heavy glass in port hole, sealed against leakage with Neoprene gasket. The seal cap is an added precaution against leaks. Furnished with cap nuts. Extra sturdy construction.

FLOATS — Hi-Side Floats provide positive control of flow of refrigerant into evaporator. Steel construction, copper hydrogen brazed throughout. Internal parts are brass or bronze. Also Low-Side Float.



TUBE FITTINGS — **TRIPLE-SEAL** Flared Fittings give extra protection against leakage due to special groove in seat. Extra length pipe threads are still further protection. Nuts, tees, and elbows made from brass forgings. Straight fittings made from brass rod.

TUBING TOOLS — Speed your tubing connection work with Imperial Tube Working Tools. These outstanding tools make it easy to do faster and better cutting, flaring, bending, swedging, soldering, pinch-off, reaming, refacing.

CHARGING AND TESTING — A broad line of equipment including charging lines; service valve kit for hermetic units; Hi-Lo charging and testing units — also a double gauge unit; pressure, compound and compound retard gauges; pressure control pump; Kwik-Kuplers.

SOLDERING AND WELDING — A wide range of Imperial units for all types of soldering, brazing and welding including complete outfits, individual torches, regulators, hose and hose connections. All equipment is of the high Imperial quality.



Ask for your copy of new Catalog No. 80 covering the complete **IMPERIAL LINE**.

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Fittings • Valves • Driers • Filters • Floats • Charging Lines • Tools for Cutting, Flaring, Bending, Pinch-Off and Swedging

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REFRIGERATION INDUSTRY

News

CANADA IMPOSES BAN ON IMPORTS

In a move designed to conserve its rapidly diminishing assets of U. S. dollars, Canada has banned completely the import of American-made refrigerators, air conditioners, and many types of major and smaller electrical appliances.

The government also applied a 25 percent excise tax, retroactive after approval by parliament, on a wide variety of consumer durable goods whether Canadian or foreign made. Electric and gas refrigerators are included in the products affected.

Explaining necessity of the import ban move, minister of finance Douglas C. Abbott said that Canada's reserve of U.S. dollars had dwindled from \$1,245,000,000 at the beginning of this year to about \$500,000,000 at the time the ban was imposed.

He emphasized that the import controls and excise taxes as applied to manufactured goods in which U.S. imports are used for fabrication are but temporary measures, and will be lifted as quickly as a full constructive program, now under way, becomes fully effective.

Other items now subject to the 25 percent excise tax, designed to discourage non-essential purchases, include refrigerator coils, condensing units, cabinets, boxes, evaporators, and expansion valves therefor.

STAINLESS CABINETS OFFERED BY ACE

Addition of a complete line of stainless steel shells to their present line has been announced by Ace Cabinet Corp. Ace ice cream cabinets, farm and home freezers, and frozen food display cabinets all will be available in the new stainless steel shell as well as the present enamel finish shell.

ELPECO PETITIONS TO REORGANIZE

Electric Power Equipment Co., Philadelphia, has petitioned the Federal Court for permission to reorganize under Chapter X of the Chandler Act.

Hearing on the petition has been set for Dec. 29. Harold C. Stott, president of Elliott-Lewis Electric Co., Inc., electrical equipment wholesaler, and A. Robert Bast, vice president of Land Title Bank & Trust Co., Philadelphia, were appointed trustees by the court.

According to a company statement, the trustees intend to continue the business with the present management acting as agents for the trustees.

One of the company's two plants suffered severe damage in a recent fire.

VENTILATING SHOW SET FOR FEB. 2-6 IN NEW YORK CITY

The 8th International Heating & Ventilating Exposition will be held February 2-6, 1948, in New York City. It will be sponsored by the American Society of Heating & Ventilating Engineers.

About 460 spaces already have been booked for this show, and virtually every type of device for controlling indoor climate conditions will be on display.

ORLEY MOVES

Orley Freezers, Inc., Detroit home freezer manufacturer, has moved its executive offices and factory to modern expanded facilities at 475 Schaefer, at Oakwood.

BINDERS SELL AMCOIL INTERESTS

Controlling interest of the American Coils Co. has been purchased by four of the key personnel of the company—Michael Parco, H. A. Thibault, S. R. Hirsch, and John Brody. The complete holdings of Thomas W. Binder and family have been acquired in the purchase.

Thomas W. Binder has resigned as co-trustee, and all former directors—Thomas W. Binder, president; Harold Binder, 1st vice president and secretary; Bessie Binder, treasurer, and Naomi Binder, assistant treasurer—have resigned and severed all connections with American Coils Co.

American Coils Co. will continue to operate under Chapter 10 of the Bankruptcy Act, with Andrew B. Crummy, Newark attorney, as trustee. It is the intention of the management to continue in the manufacture and distribution of refrigeration blower coils and other fin surface equipment.

Production is being continued under the trusteeship arrangement and business will proceed under the new management with certain changes in policies.

6 NEW MODELS IN '48 COLDSPOT LINE

Sears, Roebuck & Co. has introduced six new Coldspot refrigerators as its 1948 line, featuring a rear-mounted refrigerating unit which is said to permit a 30% increase in storage space without any increase in overall cabinet dimensions. Two 7-cu. ft. models, two 9-cu. ft. models and two 11-cu. ft. models comprise the line.

Retail prices in the Chicago area on the line are: 7-cu. ft. models: \$189.95 and \$209.85; 9-cu. ft. models: \$239.95 and \$259.95; 11-cu. ft. models: \$269.95 and \$289.95.

LEONARD CITED FOR PUBLIC SERVICE



George W. Mason, (left) president, Nash-Kelvinator Corp., accepts from Henry E. Abt, president of Brand Names Foundation, a citation honoring Leonard Division of the company for public service. Leonard, founded in 1881, is the oldest name in household refrigeration and was recognized by the Foundation for services of products the public has continued to patronize and trust for 50 years or more.

OBERC CONSTRUCTS NEW HEADQUARTERS



Mrs. J. M. Oberc, vice president of the wholesaling concern, breaks ground for the new buildings as other Oberc officials and construction representatives look on. The mayor of Highland Park, Detroit suburb in which the new building will be located, is the short man in the dark hat standing between Mrs. Oberc and the company's boss, Joe Oberc himself. At extreme left is A. J. Mattes, Oberc's sales manager, while at extreme right is the firm's secretary, E. A. Germain.



An architect's drawing of the new home of J. M. Oberc, Inc., Michigan's oldest refrigeration supply jobbing firm. Construction is presently under way and is to be completed next April.

Now under construction in Highland Park, Mich., metropolitan Detroit suburb, is a building which will mark another milestone in the history of J. M.

Oberc, Inc., Michigan's oldest (and largest, too, it is claimed) refrigeration supplies wholesaler.

General contract for this new home of the Oberc or-

ganization was awarded to Campbell Construction Co., and calls for completion of the structure about April 6, 1948. Ultra-modern both inside and out, the building will house a jobbing sales room, offices, and warehouse, comprising over 15,000 sq. ft. of floor space.

Customer convenience was the keynote both in location and design of the new quarters, according to Joe Oberc, head of the firm which bears his name. The location is approximately in the center of metropolitan Detroit, and the new facilities will enable the firm to offer true "one-stop service" to all its customers.

Outstanding feature of the new headquarters is an assembly hall seating approximately 125 persons and having kitchen facilities. This hall will be available for use by recognized refrigeration associations, as well as serving as an ideal spot for the Oberc firm's own sales-promotional meetings.

Other features include a private office with telephone facilities exclusively for customer use, a 70-foot sales counter, and modern rest rooms opening off the 70 x 20-foot display floor, which also will be at the disposal of all of the firm's customers. Rear portion of the building will be utilized as a storage area as well as housing the shipping and receiving departments.

INSURANCE AGAINST FOOD SPOilage LOSS OFFERED BY WILSON

A food spoilage insurance plan which will protect consumers from food losses that may be caused by extended power failures during hurricanes, storms, floods and similar catastrophes now is being made available to owners of home and farm freezers manufactured by Wilson Refrigeration, Inc., it has been announced by A. A. Davis, vice president and general sales manager of the company.

"While under normal circumstances, there should be a little if any, food loss resulting from mechanical failure, there always remains the possibility of power failure due to storms, hurricanes, floods, etc.," Mr. Davis explained. "In order to eliminate this chance of food loss through a trick of nature, we are now making it possible to insure food spoilage through our insurance plan."

This new plan introduces a policy which covers foodstuffs contained in Wilson freezers against spoilage caused by outside power failure or mechanical breakdown of the food freezer unit. Such a plan was brought about through arrangements with the Phoenix-Connecticut group of insurance companies. The plan provides for coverage at a low cost to the owner for optional periods of one to five years.

MIDWEST WHOLESALERS MEET WITH MANUFACTURERS REPRESENTATIVES



Photos by Austin Jones, Kerotest Mfg. Co.

Eighteen wholesalers and a number of manufacturers' representatives were on hand when Region 5 of the Refrigeration Equipment Wholesalers Association held a two-day meeting at French Lick Springs Hotel,

French Lick, Ind. Although some of the sessions were closed to members, the manufacturers' men were allowed to sit in on others. One of the principal matters of business discussed was the regional group's

decision to incorporate itself under Ohio law as a non-profit organization. The wholesalers' ladies joined in the social events such as the luncheon pictured here by Kerotest's peregrinating photographer.

LYNCH CORP. MERGES 4 SUBSIDIARIES

Four wholly owned subsidiaries of Lynch Corp.—Wiley & Lett, Inc., Lynch Mfg. Corp., Lynch Package Machinery Corp., and Toledo General Investment Co.—have been merged into the parent corporation as of the close of business Dec. 31, 1947, in accordance with a plan ratified by the shareholders of the parent concern.

Henceforth Lynch Corp. will operate its five plants as one corporation, but with three separate divisions—Glass Machinery Div., Par Compressor Div., and Package Machinery Div. Executive and general offices of the corporation will be at Anderson, Ind. Sales offices of the Glass Machinery Div. also will be located there, while sales offices of the other two divisions will be at Toledo.

The merger does not contemplate any change in the directorate or executive personnel, nor does it in any way affect the outstanding stock of Lynch Corp. Plant management, engineering, and purchasing functions will be attached to each plant.

LOCKER FINANCING FIRMS ORGANIZED

Formation of an organization devoted exclusively to financing the construction and equipping of frozen food locker plants has been announced by Locker Plant Financing Association, Chicago. F. C. Hartmann is manager of this new financing firm.

Proposed financing plan of the new organization comprises five basic points:

1. Interest rate to be a flat 5 percent added to the loan.
2. Repayment of loan up to four years.
3. 40 percent down payment.
4. Monthly payments to be nominal, approximately 25 percent of the total annual payments to be divided into 12 monthly installments. Balance of the annual payments to be paid in the form of a balloon note on the 13th month, repeating the same method of repayment for each succeeding year until the loan is repaid.
5. No recourse to the contractor at any time.

FT. WAYNE BRANCH IS FIFTH IN LANGSENKAMP 'CHAIN'

F. H. Langsenkamp Co., refrigeration supplies wholesaler with headquarters in Indianapolis, has opened a branch store at 430 Pearl St., Fort Wayne, Ind.

This brings to four the number of branch stores operated by Langsenkamp, the others being located in South Bend and Evansville, Ind., and Louisville, Ky. The new store will be under the supervision of Gerrel Cassady, who is manager of the South Bend branch. Gene Kenneper will be resident manager at Fort Wayne.

Formal opening of the new store was held November 29, with an all-day open house attended by refrigeration men in the area and by representatives of manufacturers serving the firm.

The store, of approximately 2000 sq. ft. area, is of vitreous tile throughout and is self-service in type. The shelving lines both walls, with two aisles of shelving in the center of the store, enabling customers to walk around and select their merchandise. Sales counter is at the front door, where customers can assemble their purchases. Signs over each section indicate the items stocked there, so that customers upon entering the front door can go directly to the section containing the merchandise they want.

TENNEY EXPANDS MFG. FACILITIES

Acquisition of additional production facilities has just been announced by Tenney Engineering, Inc., Newark, N. J., manufacturer of refrigeration equipment, and automatic temperature, humidity and pressure control equipment.

This move to acquire additional space was necessitated by the increasing demand for the company's products, it is reported.

The additional space acquired will be used for construction and storage of bulky units in the Tenney line, permitting the use of more space in the original premises for manufacture of valves, mullion units and similar products.



Photos by Austin Jones, Kerotest Mfg. Co.

(Top and center) Exterior and interior views of the new Ft. Wayne, Ind., branch of F. H. Langsenkamp Co., Indianapolis wholesaler of refrigeration supplies. Note the wide parking apron in front of the store and the self-serve displays of equipment within. (Bottom) Key members of the Langsenkamp organization pose happily during the "open house" festivities at the Ft. Wayne branch. Left to right are: Frank Langsenkamp, Jr.; Gerrel Cassady, supervisor of the South Bend and Ft. Wayne branches; Jack Berry, manager of the Louisville branch; M. F. Reno, manager of the Indianapolis store; Paul Radley, Evansville branch manager; Gene Kenneper, resident manager of the Ft. Wayne branch.

WHOLESALE MOVES TO NEW QUARTERS

Refrigeration, Inc., refrigeration and air conditioning supplies wholesaler in Springfield, Mass., has moved to 20 Ryan Court.

The company recently was reorganized, and its new officers are: A. W. Towson, president; J. A. Towson, vice president; C. Towson, director.

SELLS COLD STUFF IN HOT CLIMATE

Reliance Products Co., 1418-19 Congress Bldg., Miami, Fla., has been appointed distributor for Whiting food freezers in Florida and South Georgia.

The Reliance Company distributes a complete line of household appliances. Gustaf Lindquist is president.

Farm and Home Freezer Manufacturers Association Report on the Total Number of Freezers Shipped During the Period Oct. 1, 1946 to Sept. 30, 1947

Size (Cu. Ft.)	4 to 6.9	7 to 10.9	11 to 15.9	16 to 20.9	21 to 29.9	30 & Over
1946						
October	919	405	1521	3508	539	12
November	1042	545	2036	2102	669	96
December	3278	326	3645	1796	375	224
1947						
January	3116	920	4515	2786	570	226
February	1660	920	4845	2569	325	249
March	2363	780	8813	2436	533	164
April	5256	466	6222	3016	697	112
May	1573	625	3113	2917	121	72
June	3240	1175	4058	4766	210	48
July	2810	1348	3415	561	280	70
August	4276	3545	4575	1102	249	50
September	3486	2534	5409	870	253	61
Total	33019	13589	52167	28429	4821	1384
Total Production						135,919
Shipments						133,409
Stock-on-hand Sept. 30						2,987
Dollar Value						\$32,121,095.25
Average Unit Selling Price						\$240.77

SEPTEMBER SALES TOTAL 290,082

World sales of household electric refrigerators by the 11 manufacturers reporting to the Household Refrigeration Section of National Electrical Manufacturers Association totaled 290,082 units, as against a reported August total of 213,901 units.

For the first nine months of 1947, world sales by the Nema manufacturers amounted to 2,258,874 units.

The 7 cu. ft. size continued to lead in sales, with 134,878 units in September and a nine-month total of 1,283,523 units, but the 8 cu. ft. size registered a notable increase in popularity in the month's shipments in comparison with previous figures. For September, sales of this size unit were 67,104 units, and for the nine months, 313,973 units.

However, the 9 cu. ft. size was second only to the 7 cu. ft. size in nine-month sales, with a total of 400,822 units. For September, sales of this size unit were 41,540 units.

Nine-month leaders in sales by states were New York (212,504) and Pennsylvania (157,802).

MULLIN ADDED TO MILLSOM STAFF

Samuel D. Mullin has been named director of packaged cooling sales for Temperature Equipment Corp., Chrysler Airtemp distributor in Cleveland, Ohio, according to C. W. Millsom, vice president and general manager.

Before the war, Mr. Mullin spent more than 10 years in the merchandising of air conditioning.

SALES OF 133,409 FREEZERS REPORTED IN 12 MONTHS

Members of the Farm and Home Freezer Manufacturers Association who reported their sales to the association's headquarters shipped 133,409 freezers of all sizes in the 12 months from October, 1946 through September, 1947.

Total dollar value of shipments was set at \$32,121,095, with an average unit price of \$240.77.

Production of freezers for the period reported upon was 135,919 units, stock-on-hand as of September 30 being 2,987 units.

From the tabulation in the adjoining column, it will be noted that highest sales volume was reported in the 11 to 15.9 cu. ft. category. Thus it might be inferred that the output of some of the major manufacturers of small-size freezers was not included in the report.

CLERCOLD CORP. TO MAKE COMPRESSOR

Clercold Corp. has been organized with executive sales offices at 400 West 119th St., New York City, to manufacture the recently developed Clerc rotary compressor.

The compressor was designed by Leonard F. Clerc of Detroit, and according to present plans will be produced in various sizes for standard and low temperature refrigeration and air conditioning applications.

LOCKER COUNT SHOWS INCREASE OVER 1946

The 10th annual count of frozen food locker plants in all of the 48 states reveals that despite skyrocketing construction costs more than 1500 plants were erected throughout the country between July 1946 and July 1947, according to a report by K. F. Warner, extension meat specialist of the U. S. Department of Agriculture.

This increase was distributed fairly uniformly among the various states, the report shows. Iowa remains well in the lead, with a total of 702 plants, according to the latest count, with Washington, Minnesota, and Wisconsin trailing in that order, each with more than 550 plants.

Overall increase for the survey year of 1946-47 was 1504, compared with the all time record high of 1561 new plants reported in the period from July 1945 to July 1946. Total number of plants reported in operation as of the completion of the 1946-47 survey was 9529.

FIRM CHANGES HANDS

Forrest Hayes and James F. Driggers have purchased the former Perry Refrigeration Service and have opened for business at 965 Central Ave., St. Petersburg, Fla., under the name of Hayes & Driggers Refrigeration Service. Both men are veterans of World War II, as is their mechanic, Jack Sparr.

TENTH ANNUAL LOCKER COUNT

	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938
Total plants.....	9529	8025	6464	5282	4559	4323	3623	2870	1861	1269
Yearly increase.....	1504	1561	1182	723	236	700	753	1009	592	

TABULATION BY STATES, 1946 - 1947

	1947	1946		1947	1946		1947	1946
Alabama	77	49	Maine	10	5	Ohio	310	288
Arizona	28	17	Maryland	37	29	Oklahoma	299	299
Arkansas	115	75	Massachusetts	29	22	Oregon	350	325
California	512	438	Michigan	301	232	Pennsylvania	228	184
Colorado	160	135	Minnesota	572	525	Rhode Island	5	5
Connecticut	60	50	Mississippi	97	78	South Carolina	50	36
Delaware	11	6	Missouri	313	229	South Dakota	300	315
Florida	26	14	Montana	181	159	Tennessee	110	89
Georgia	120	101	Nebraska	400	345	Texas	503	402
Idaho	175	160	Nevada	11	7	Utah	112	97
Illinois	535	450	New Hampshire	26	26	Vermont	43	35
Indiana	290	213	New Jersey	16	12	Virginia	71	29
Iowa	702	655	New Mexico	44	32	Washington	576	495
Kansas	420	340	New York	218	165	West Virginia	10	8
Kentucky	86	60	No. Carolina	86	45	Wisconsin	565	473
Louisiana	45	25	No. Dakota	237	185	Wyoming	57	61

COMMERCIAL CREDIT FINANCING PLANS FOR REFRIGERATION

AND AIR CONDITIONING INDUSTRY INCLUDE WHOLESALE AND

RETAIL FINANCING OF CABINETS, COILS, COMPRESSORS,

FIXTURES AND RELATED EQUIPMENT . . . INDIVIDUALLY OR

COLLECTIVELY. FROM BASIC STEP OF FLOOR PLANNING FOR

DISTRIBUTOR TO FINAL PAYMENT BY PURCHASER THERE IS

FOLLOW THROUGH TO INSURE SOUND AND PROFITABLE SALES.

ANY QUESTIONS AS TO ADVANCES, RATES, MATURITIES OR

RENEWALS CAN BE QUICKLY AND CLEARLY ANSWERED BY YOUR

LOCAL COMMERCIAL CREDIT REPRESENTATIVE.

COMMERCIAL CREDIT CORPORATION

A Subsidiary of Commercial Credit Company, Baltimore

MORE THAN 300 OFFICES IN PRINCIPAL CITIES OF THE UNITED STATES AND CANADA

YOUR KEY TO THE SHOW . . .

Continued from page 55

"Purox," "Prest-O-Weld," and "OxWeld" oxy-acetylene welding and cutting apparatus and supplies.

LYNCH MFG. CORP.

SPACE 102 & 201

NEW PRODUCTS to be introduced—

Heavy duty $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and $\frac{1}{2}$ -hp "Par" condensing units, redesigned for installation in cabinets or for remote applications where space is limited.

WHO will be there—

M. H. Pendergast, president; J. P. McCarthy, vice president; F. K. Zimmerman,

treasurer; R. L. Sears, sales manager; A. V. Petersen, assistant to sales manager; R. R. Seibel, works manager; G. C. Davis, chief engineer; Wm. Gardiner, plant engineer; D. E. Stenson, B. J. Scholl, C. B. Pierce, B. D. Berk, E. W. Montgomery, W. A. Doepel, district managers.

McCORD CORP.

SPACE 107

NEW PRODUCTS to be introduced—

Condensers; fin tubing.

WHO will be there—

F. W. McMillan; O. Oldberg; Morrill Dunn; Edwin L. Bodkin.

McINTIRE CONNECTOR CO.

SPACE 611

NEW PRODUCTS to be introduced—

Moisture indicators; equipment for low dew point drying.

OTHER PRODUCTS to be featured—

Driers, filters and strainers for mechanical refrigeration.

WHO will be there—

L. S. Dunn, president; H. A. Chandler, secretary; J. G. Beierlein, production engineer.

McQUAY, INC.

SPACE 602

NEW PRODUCTS to be introduced—

New line of wall-type unit cooler known as the "Panel Chillator" and designed primarily for reach-in and back bar applications.

OTHER PRODUCTS to be featured—

Normal temperature and water defrost unit coolers; ice cube makers; unit heaters; multi-louvre coils; round ceiling unit coolers; "Zer-O-Pak."

WHO will be there—

R. J. Resch, president; E. H. Seelert, secretary-treasurer; H. Blake Thomas, assistant general sales manager; C. L. Benzen, regional sales manager, R. N. Weber, general sales.

SPECIAL ACTIVITIES—

It is planned to hold meetings with wholesalers and agents handling the McQuay line of equipment.



MARLO COIL CO.

SPACE 404, 406, 408 & 410

NEW PRODUCTS to be introduced—

Three forced convection units giving a complete range of sizes for small commercial installations; a blow-through unit cooler completely constructed of aluminum; a streamlined aluminum wall type unit and a companion unit for ceiling mounting.

OTHER PRODUCTS to be shown—

Complete line of Marlo equipment, including evaporative condensers, floor and ceiling type air conditioning units, industrial coolers, and heavy duty commercial air units.

WHO will be there—

A. T. Marlo, president; L. C. Pellegrini, sales manager; W. J. Bagley, factory representative; and the following regional representatives—H. R. Iverson, Washington, D. C.; W. C. MacIntyre, west coast; R. C. Holsworth, Texas; W. B. Moses, Jr., New Orleans; G. M. Sebree, New Mexico; H. V. Witherspoon, Baltimore.

JAS. P. MARSH CORP.

SPACE 114

NEW PRODUCTS to be introduced—

"Duo-Temp" thermometer, for registering both indoor and outdoor temperatures.

OTHER PRODUCTS to be featured—

Refrigeration gauges and thermometers.

WHO will be there—

James Emmett Jr., sales manager; R. Barnett; F. Ziccarelli; E. Kluger; A. C. Duporow; F. Hudson Jr.

MAYFLOWER PRODUCTS, INC.

SPACE 122

NEW PRODUCTS to be introduced:

Mayflower air conditioning units both ceiling and pedestal type.

TRACE IS "very effective"
... SAYS MR. MANNING

KELMORE REFRIGERATION SERVICE, Inc.
Commercial Refrigeration and Air Conditioning
599 SPRINGFIELD AVENUE
NEWARK 3, NEW JERSEY

Oct. 20, 1947

Highside Chemicals Co.,
195 Verona Ave.,
Newark, N. J.

Gentlemen:

We have used your product TRACE over a considerable period of time and have found it very effective in locating hard-to-trace refrigerant leaks.

We are pleased to recommend this product wherever refrigerant leaks are suspected.

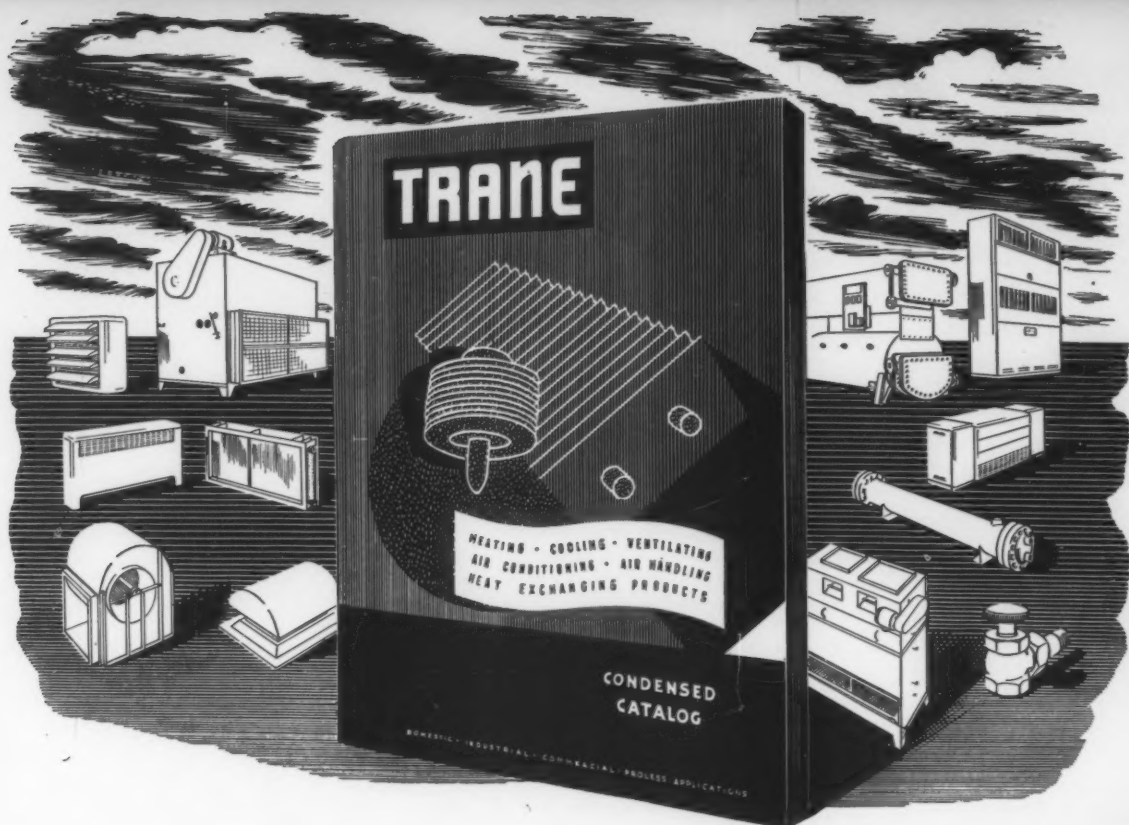
Very truly yours,
A. E. Manning
A. E. MANNING
Vice-President

TRACE
REFRIGERANT
LEAK DETECTOR

HIGHSIDE CHEMICALS COMPANY
195 VERONA AVE.,
NEWARK 4, N. J.

ALSO
MAKERS OF → **THAWZONE**
PATENTED
The PIONEER FLUID DEHYDRANT

Booth 321 at the Cleveland Show, January 26th to 29th



More and More Jobs Need Heating *and* Cooling . . . BE READY TO HANDLE *Both*...WITH TRANE PRODUCTS

Job after job now calls for both heating and cooling. Since the functions are so closely allied, often being accomplished with much of the same equipment, heating and air conditioning *must* be considered together.

Architects, engineers, and owners prefer a minimum of contracts and responsibilities — so the contractor who can bid on the whole job has a much greater chance of getting it. The contractor who cannot bid on the whole job may likely lose it to one who can.

Heating and air conditioning are so closely related, from figuring the job through installing it, that it is only logical for the contractor to grow with the industry by combining heating and air conditioning. In this way, the contractor has peak business the year around, and is assured of a steadily increasing market

in remodeling and modernization work, as well as in new construction. Just as the contractor needs both heating and air conditioning to make his service complete, the heating and air conditioning industries need additional contractors so that they can expand to meet the enormous demand.

Trane is the ideal source of supply for the independent contractor who combines heating and air conditioning. The complete Trane line includes every necessary product for entire heating and air conditioning systems — giving the contractor the undivided responsibility of *one* manufacturer. Trane field engineers in 85 field offices are constantly available for help and advice in any phase of heating and air conditioning.

TRANE

Manufacturing Engineers of Equipment for
HEATING AND AIR CONDITIONING

THE TRANE COMPANY, LA CROSSE, WISCONSIN • Also TRANE COMPANY OF CANADA, LTD., TORONTO, ONTARIO





WHO'S WHO?

HOW well do you know your industry personalities? Here's a chance for you to find out for yourself how many you recognize—and to brush up on your identification average in case it's not as high as you think.

On this page, we had our artist sketch only a few of the many executives of leading refrigeration manufacturers whom you can expect to see at the All-Industry Show. We could have listed dozens more, equally well known, but unfortunately space didn't permit.

Anyway, see how many of them you can identify. After you've taken the cartoon-quiz, turn to page 109 for the answers. No fair peeking, now!

OTHER PRODUCTS to be featured:

Mayflower standard condensing units from ¼ hp up to 2 hp air cooled; ½ hp up to 3 hp water cooled.

WHO will be there:

Brouse D. Rinehart, president and treasurer; Alfred D. Greene, engineer.

MILLS INDUSTRIES, INC.

SPACE 109 & 111

PRODUCTS to be featured—

Standard line of condensing units from ¼-hp to 10-hp inclusive.



WHO will be there—

Harrison J. Hedrick, manager refrigeration div.; Hillis D. Iams; Alexander T. Murray, and Carl L. Picker, district managers; Gordon B. Mills, vice president in charge of sales; M. D. Passmore, assistant vice president in charge of sales.

MINNEAPOLIS SHOW CASE & FIXTURE CO.

SPACE 1013

NEW PRODUCTS to be introduced—

"Sterling" refrigerated bakery display case.

OTHER PRODUCTS to be featured—

"Sterling Junior" refrigerated display case.

WHO will be there—

F. E. Jernberg, executive vice president and general manager; Robert C. Groth, sales manager.

MINNEAPOLIS-HONEYWELL REGULATOR CO.

SPACE 701

NEW PRODUCTS to be introduced—

Electronic controls.

OTHER PRODUCTS to be featured—

Automatic controls and accessories.

WHO will be there—

G. M. Kingsland, sales manager, specialties div.; W. H. Kramer and W. P. Mader, specialties div.

MITCHELL MFG. CO.

SPACE 1017

NEW PRODUCTS to be introduced—

¾-ton window type room air conditioner.

OTHER PRODUCTS to be featured—

½-ton window type room air conditioner, Model M-10.

WHO will be there—

B. A. Mitchell, president; E. A. Nickel, sales manager; C. J. Schroeder, sales-service operations manager; J. H. Jennings, engineer and production manager; E. C.

Geisbert, mechanical design and development engineer; W. Fred Masterson, assistant sales manager.

MUELLER BRASS CO.

SPACE 307 & 309

NEW PRODUCTS to be introduced—

"Midget Purger," a water-cooled purger designed for economical operation of the smaller fractional units up to 10 hp.

OTHER PRODUCTS to be featured—

Valves; fittings; driers; tools; liquid indicators; heat exchangers; strainers; line filters; etc.

WHO will be there—

Fred Riffin, Jr., general sales manager; P. L. Craft, sales manager, jobbing div.; P. Domke, sales manager, reference div.; E. F. Hall; L. Parker.

KELVINATOR DIV.,

SPACE 901 & 1001

PRODUCTS to be featured—

Condensing units (sealed and open types); water coolers; ice cream cabinets; household refrigerators; home freezers; Kelvinator-manufactured refrigeration parts.

WHO will be there—

H. C. Patterson, commercial sales manager; E. A. Seibert, director of service; C. H. Herrlich, sales manager, commercial contracts; G. T. Etheridge, sales manager, commercial and parts; G. R. Kingston, manager commercial product development; R. G. Alexander, T. G. Ammel, B. Fury, E. G. Haight, H. K. Leussler, J. E. Oertel.

NEVINGER MFG. CO.

SPACE 913

NEW PRODUCTS to be introduced—

5-hp self contained air conditioner; 5-ton evaporative condenser.

OTHER PRODUCTS to be featured—

Ceiling type air conditioning unit; 10-hp self contained central station type air conditioner.

WHO will be there—

C. R. Nevinger, president; Mrs. C. R. Nevinger, secretary-treasurer; Miss W. K. Wernle, W. C. Fish; Leo Watson; Milton Rasch.

OWENS-CORNING FIBERGLAS CORP.

SPACE 1005

PRODUCTS to be featured—

Refrigerator insulation; thermal insulation; "Dust-Stop" air filters.

WHO will be there—

C. L. Rowley, manager equipment and appliance division; J. R. McCord, manager appliance sales; Paul E. Benner, manager Armstrong Cork sales; Roy Hunsaker, manager filter equipment sales; John Dowd, manager filter distributor sales.

PACIFIC LUMBER CO.

SPACE 1208

PRODUCTS to be featured—

"Palco Wool" insulation.

WHO will be there—

Edric E. Brown, manager, by-products division; Ray P. Klass; John H. Klass; Stanley H. Dickson.

PACIFIC MFG. CORP.

SPACE 1109

NEW PRODUCTS to be introduced—

Model 75-W ¾-hp window air conditioner.

OTHER PRODUCTS to be featured—

Regular line of air conditioners.

WHO will be there—

S. C. May, vice president and general sales manager; J. H. Merritt, Jr., division sales manager; H. C. Troth, president.



PALEY MFG. CORP.

SPACE 910

NEW PRODUCTS to be introduced—

Open type self-service dairy and meat cabinet; open type self-service frozen food cabinet; 3-5-cu. ft. "Lo-Boy" domestic refrigerator; self-contained beverage dispenser with three synchronous valves.

WHO will be there—

Albert A. Paley, president; J. J. Spiegel, treasurer; M. M. Kassof, assistant sales manager; J. Huntington and Edward A. Stillier, salesmen.

PEERLESS OF AMERICA, INC.

SPACE 707 & 709

NEW PRODUCTS to be introduced—

Gun coolers; unit coolers; dome coolers; cannon (product) coolers; air conditioning units; evaporative condensers.

OTHER PRODUCTS to be featured:

Fin coils; cube makers; flash coolers; capacity boosters; expansion valves; cold plates; air conditioning coils; water coils and steam coils.

WHO will be there:

R. W. Kritzer, president; H. E. Kritzer, vice president; M. W. Knight, general sales manager; Carl Johnson, sales representative; J. M. O'Connor, assistant sales manager; W. A. Honeychurch, sales representative; David Snow; Roy Stuhlman; R. M. Carberry; H. B. Weeks and R. L. Williams.

PENN BRASS & COPPER CO.

SPACE 613

NEW PRODUCTS to be introduced—

"Papco" #500 cut off tool.

OTHER PRODUCTS to be featured—

"Superior" seamless copper tubing; complete line of Papco tube tools.

WHO will be there—

R. K. Wilks, sales manager; A. R. Roach, secretary and treasurer.

SPECIAL ACTIVITIES—

Special sales meeting on January 25 for all company personnel who will attend the show.

PENN ELECTRIC SWITCH CO.

SPACE 1011

NEW PRODUCTS to be introduced—

Series "270" pressure and temperature controls featuring 2-pole construction.

OTHER PRODUCTS to be featured—

Cooling thermostats; water valves; solenoid valves; relays; humidistats.

WHO will be there:

M. E. Henning, executive vice president; R. H. Luscombe, sales manager; D. G. Cameron, vice president; F. W. Hottenroth, chief engineer; J. R. Netedu, advertising manager; K. W. Cash, assistant sales manager.

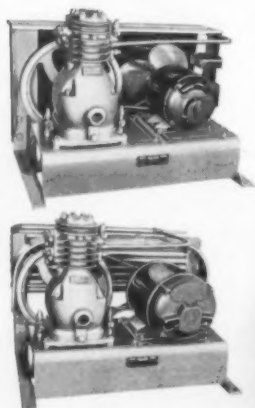
Continued on page 80

**Why YOU
Should Sell
THE**



LINE

Two widely-used Lipman condensing units. The 1-hp. machine, above, is air-cooled—the 1½-hp. unit below is water-cooled. Both use either methyl chloride or freon refrigerant.



IT'S COMPLETE . . . ¼ through 40 hp. capacity machines—air and water cooled—ammonia, freon or methyl chloride refrigerant.

IT'S WELL ENGINEERED . . . For more than a quarter century the Lipman name has been recognized for dependability wherever automatic refrigeration is used.

IT'S PROFITABLE . . . The complete, well-engineered line puts you in an excellent competitive position. Lipman's reputation for dependability builds customer acceptance, makes sales easier.

AN UNUSUAL OPPORTUNITY AWAITS YOU if your territory is still open . . . and if you have the necessary sales and service facilities. Write for more details on the Lipman automatic refrigeration line and ask about our profitable dealer sales and service plan.



GENERAL REFRIGERATION

DIVISION

YATES-AMERICAN MACHINE CO., Beloit, Wisconsin

ONLY ARTKRAFT

HAS A COMBINATION FOOD and BEVERAGE COOLER THAT CAN BE OPERATED WET OR DRY



The ARTKRAFT BEV-FOOD

*A High Quality,
Self-Contained
"Plug-in" Unit*

• RETAILS AT ONLY
\$385 (f.o.b. factory)

• OFFERS THE LOWEST
COST PER CUBIC FOOT
USABLE REFRIGERATION
SPACE IN THIS SIZE
RANGE.

• EACH COMPARTMENT
CAN BE USED ENTIRELY
FOR DRY REFRIGERATION

• TOP OPENING PREVENTS
"SPILL-OUT" OF COLD

IDEAL FOR:

RESTAURANTS
ROADSIDE STANDS
DAIRY STORES
HOTELS
TAVERNS
FISH MARKETS
FACTORY CAFETERIAS

HOSPITALS
SODA FOUNTAINS
BOWLING ALLEYS
MEAT MARKETS
DELICATESSENS
CANDY STORES
DRUG STORES

SPECIFICATIONS:

Sealed cabinet: 65 $\frac{3}{8}$ " x 38" x 29 $\frac{1}{2}$ "

Solid 3" insulation—Vermin-proof

Top compartment: 35 $\frac{3}{4}$ " high x 20 $\frac{3}{4}$ " wide x 15 $\frac{1}{2}$ " deep (Slightly over 6 $\frac{1}{2}$ " cu. ft.)

Food compartment: 21 $\frac{1}{4}$ " wide x 28 $\frac{3}{8}$ " high x 20 $\frac{3}{4}$ " deep (Slightly over 7 $\frac{1}{2}$ " cu. ft.)

Total storage capacity: 14 cu. ft.

Finish: Exterior—Silver Blue

Interior—Porcelain enamel

Top and 2 sliding covers, stainless steel

Condensing Unit: $\frac{1}{4}$ H. P., twin-cylinder air cooled Equipped with Tecumseh, Universal Cooler, or Copeland unit

Motor: $\frac{1}{4}$ H. P., 60 cycle, single phase, 1750 r.p.m., 110 volts, capacitor type

Refrigerant: F-12 Freon

Automatic light in food compartment

8-point cold control

DEALERS:

Ask your distributor for this great profit-maker—or write us for his name. Distributed in many areas by G. E. Supply Corporation.

DISTRIBUTORS:

Write for details of franchise for open territory.

The Artkraft Manufacturing Corp.

Quality Products for More Than a Quarter of a Century
300 KIBBY STREET • LIMA, OHIO, U.S.A.

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THE ARTKRAFT MANUFACTURING CORPORATION
300 Kibby St., Lima, Ohio, USA

☐ Please send the name of the BEV-FOOD distributor in this territory

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NAME

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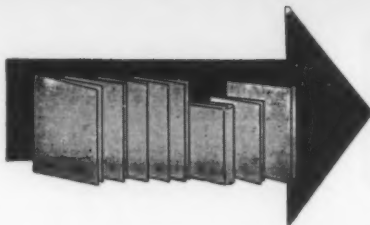
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*Useful
Literature*

The publications listed below are available to readers without charge. Simply list on the postcard provided in this issue the numbers of the items you wish to receive, and send it to **THE REFRIGERATION INDUSTRY**, 1240 Ontario Street, Cleveland 13, Ohio. Your requests will then be forwarded directly to the companies concerned.

232—Cooling Units . . . A bulletin (47-1) issued by Refrigeration Economics Co. illustrating and describing the various "Recoy" products now available for refrigeration and air conditioning. New products include all-seasons wall units, type CSC shell and coil liquid coolers, coolant coolers, water and brine cooling units, etc.

233—Gate Valve . . . Illustrated circular No. 534 describing the new Fig. 2228 Lunkenheimer bronze "union bonnet" gate valve rated at 200 lbs. S.P. Issued by the Lunkenheimer Co., Cincinnati.

234—V-Belt Catalog . . . A new V-belt catalog containing comparison tables, selection data and other information on V-belts for electric refrigerators and

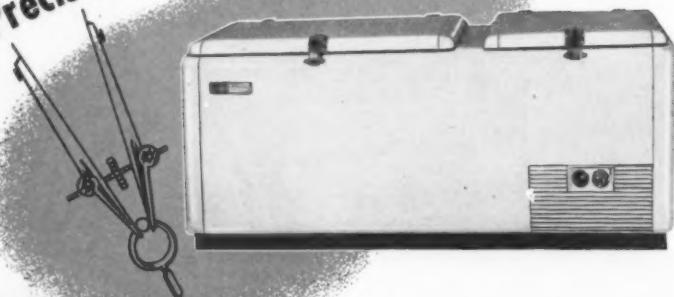
other devices. Issued by mechanical goods division of United States Rubber Co., New York City.

235—Counter Freezers . . . A booklet entitled "Little Stories of Big Successes," issued by Tekni-Craft, Beloit, Wis. Booklet contains facts and figures on ice cream profits, and features, illustrations and specifications on the 1948 Taylor Freezers.

"HOW TO RUN A LATHE"

South Bend Lathe Works announces issuance of the 45th edition of its "How to Run a Lathe." The book contains 128 pages (5 1/4" x 8") and over 365 illustrations, and covers latest information on operation and care of metal working lathes, including such subjects as operation of the lathe units, grinding cutter bits, making accurate measurements, chuck work, etc. Postpaid copies are available with paper covers for 25c (U.S. coin) or with leatherette covers for \$1, from South Bend Lathe Works, 105 E. Madison St., South Bend 22.

Precision-Engineered for LEADERSHIP...



BEN-HUR FARM & HOME FREEZERS

Feature for feature, the BEN-HUR offers your customers more in dependable food protection, "lifetime" trouble-free performance, and operating economy — advantages proved in thousands of homes.

Complete technical
and sales advantages
are yours for the asking

HEALTHFUL LIVING THROUGH FROZEN FOODS

BEN-HUR FARM & HOME FREEZERS

BEN-HUR MFG. CO. • DEPT. R, 634 EAST KEEFE AVENUE, MILWAUKEE 12, WISCONSIN

236—Float Bulletin . . . Chicago Float Works, Inc., announces a new issue of its catalog available for general distribution for the first time. Bulletin describes in detail complete line of copper, steel, monel and stainless steel industrial floats offered by company, includes engineering data.

237—Protective Coatings . . . A 12-page catalog giving complete details on chemical and physical properties, application instructions and other pertinent data on protective coatings is now available from Amercoat division, American Pipe & Construction Co., Terminal Annex, Calif.

238—Tube Fitters' Manual . . . An authoritative handbook on the selection, sizing, layout and installation of metal tubing circuits, issued by the Parker Appliance Co., Cleveland. Called the Tube Fitters' Manual, the handbook makes available basic data underlying specialized techniques required for design and installation of tubing systems. Includes size selection charts and tables of "Troubles—Causes—Remedies."

"With **KELVINATOR** you get all three!"

★ **1. TROUBLE-FREE PERFORMANCE**

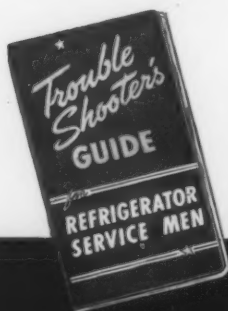
★ **2. USER ACCEPTANCE**

★ **3. COMPETITIVE PRICE**



GET YOUR COPY!

Kelvinator's "Trouble-Shooter's Guide" for Refrigeration Service Men... a handy pocket-sized booklet for training additional personnel. Ask your local Kelvinator Distributor or Zone Office about it.



Everywhere you go... experienced servicemen will tell you that condensing units have to be *priced to meet competition... completely dependable in service...* and backed by a *name that customers respect*. And right here you have the three big reasons why they choose Kelvinator!

From rigid factory tests to actual operation under the toughest conditions, Kelvinator condensing units have a reputation for steady, dependable performance. And it's a reputation that is known wherever refrigeration is used... Kelvinator for design, for engineering and for quality manufacture! It's a name that *sells*.

And whether it's a Kelvinator condensing unit, or a supply of genuine Kelvinator-made parts, you can be sure of fast, friendly service at any of the 50 Kelvinator refrigeration parts and supply depots. And what's more you'll find what you want *competitively priced*... Kelvinator Division, Nash-Kelvinator Corporation, Detroit, Michigan.

Kelvinator



CONDENSING UNITS OPEN AND SEALED

FOR PEAK PERFORMANCE *in '48...*

use **SPORLAN**

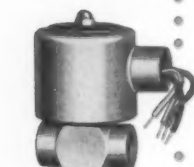
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With a complete line of Catch-Alls...

SPORLAN
CATCH-ALLS
1/3 Ton, 1/2 Ton
1 Ton



SPORLAN
STRAINERS
TYPE
4000



SPORLAN
SOLENOID VALVES
Type 62



SPORLAN
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PILOT CONTROL
There is only one style
and size...will out-per-
form any regular sol-
enoid valve over 10
tons capacity...costs
less...cheaper to install

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from, you can order Sporlan products throughout
for any commercial refrigeration or air conditioning
installations you have in '48, direct from your whole-
saler. He also carries the famous Sporlan Solenoid
Pilot Control, which will save you money 3 ways
on any job requiring solenoid valves larger than
10 tons. See him at once and learn what peak
performance really means when you use Sporlan
throughout.

Remember, too...

that only SPORLAN offers you
Thermostatic Expansion Valves
with Selective Charges



Type "G" SPORLAN
THERMOSTATIC EXPANSION
VALVES with Selective Charges
SPORLAN "C" CHARGE
for suction temperatures ABOVE zero
SPORLAN "Z" CHARGE
for suction temperatures BELOW zero



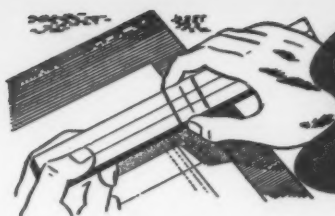
**The complete line of
SPORLAN PRODUCTS**
will be on display in Booths No. 219 and 221
at the *5th All Industry Refrigeration and
Air Conditioning Exposition*

CLEVELAND PUBLIC AUDITORIUM • JAN. 26 to 29, 1948

SPORLAN VALVE COMPANY

7525 SUSSEX AVENUE • ST. LOUIS 17, MISSOURI

THE REFRIGERATION INDUSTRY



New PRODUCTS

For further information on any of these products, simply list the key number at the head of each item on the special post card enclosed with this issue.

Display Case P-179

Product: New XS-4 portable refrigerated display case.

Manufacturer: Selb Mfg. Co., St. Louis.



Features: Occupies 4 ft. of floor space, provides over 1500 sq. in. of illuminated display front as well as over 30 sq. ft. of visible shelf space. Unit can be used to display candies, dairy products, cheeses, other delicacies. Triple-paned front glass is non-fogging. Cabinet is of all-steel construction, finished in enamel and trimmed in chrome. Large reach-in door makes all shelves readily accessible from the rear.

Leak Detector P-180

Product: Leak detector for refrigerated units, Model 1240.

Manufacturer: Justrite Mfg. Co., Chicago.

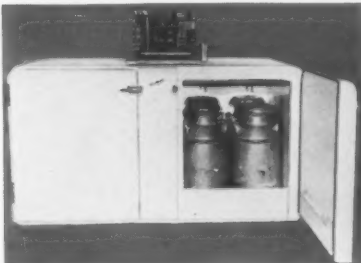
Features: Unit is designed to burn alcohol. In general appearance and construction it is identical to the Justrite gasoline-operated leak detector which has been on the market for several years. Height is 11", weight is

13¼ lbs. This model may also be used as a soldering iron and as a blow torch; soldering point and flame reducer are included in the outfit. Unit is cylindrical in shape, brass burner tube accommodates removable flexible metal leak detector hose. Only moving part is regulating valve knob. Detector said to develop 140 lbs. pressure at 1800 to 1900 F and to burn from 20 to 45 minutes on 1½ oz. of fuel.

Milk Cooler Line P-181

Product: New line of milk coolers in 4, 6 and 8 can sizes.

Manufacturer: Strata Aire, Inc., Rittman, Ohio.



Features: Newly designed cabinet is finished in white enamel with large doors for front opening; doors have chrome finished snap action hinges and latches built for heavy duty operation. Doors have refrigerator type rubber gaskets for positive sealing. Front opening feature is said to require lift of but 8" to put cans in cooler, 4" lift to remove them. Cabinet and doors are insulated with 3½" insulation. Cabinet is of 20 gauge steel.

Circulating water bath system is used to cool milk cans; pump circulates refrigerated water over cans from top to bottom in continuous stream as long as time switch is in operation. Manufacturer says tests show unit reduces temperature from animal heat to 60 F in less than 20 minutes and under 50 F in less than

ONE
TRUCK
for
ALL
HANDLING
USES!



No. 200-BRR-A

**ALL
PURPOSE
APPLIANCE
TRUCK**

Furnished and improved since 1931

Fully Rubber Upholstered

Used as 2 or 4 wheel truck

Fully descriptive folder sent on Request.

Price with 8" Rubber Wheels \$30.78



ORANGEVILLE MFG. CO.
Manufacturers Complete Line of FLOOR TRUCKS
Orangeville (Cal. Co.) Penna.

DON'T BE
HANDSHAKE SHY
USE
QUICKEE
WATERLESS
HAND CLEANER

after every job Why be ashamed of grimy hands? Let Quickee keep them handshake-clean. Clean up after every job with Quickee Waterless Hand Cleaner. Quickee makes dirt disappear in 17 seconds flat. Removes grease, grime, paint, tar—without water. Contains skin conditioning Lanolin and vegetable oil . . . cannot harm skin.

Use
QUICKEE
WATERLESS
HAND CLEANER
after every job



EXTRA PROFITS!

You can sell QUICKEE to your customers. Ask your wholesaler or write for free sample and details.

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New York 53, N. Y.

STEP IN THE RIGHT DIRECTION...

WELCOME
ALCO BOOTH 608
CLEVELAND

Step right in—we'll have a surprise in store for you at the convention!

Our staff will be on hand to show you several radically new Alco controls as well as our standard products.

We're all looking forward to seeing you again and discussing your refrigeration problems with you.

Remember—it's always a step in the right direction when you call on Alco!



Designers and Manufacturers
of Thermostatic Expansion
Valves; Evaporator Pressure
Regulators; Solenoid Valves;
Float Valves; Float Switches.

ALCO VALVE CO.

843 KINGS LAND AVE. • ST. LOUIS 5, MO.

an hour. Factory-set temperature control runs refrigerating unit just long enough to form ice bank in evaporator storage tank to store sufficient supply of ice water for fast cooling when pump is in operation. Coolers are powered by $\frac{1}{4}$, $\frac{1}{3}$ and $\frac{1}{2}$ hp condensing units.

Bar Service Unit • • • P-182

Product: Jolly Mixer bar service unit.

Manufacturer: Supreme Metal Fabricators, Inc., New York City.



Features: Makes available all-in-one bar facilities, including ice cubes, bottles, fruit, sugar, utensils, bottle decapper, cutting board, refuse receptacle. Front, top and splash finished in polished stainless steel; interior, top lining and ice service section finished in unpolished stainless steel. Door is refrigerator type, fitted with chrome hardware.

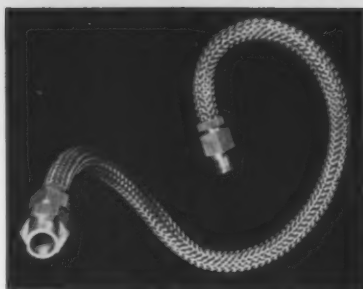
Unit has waste outlet easily accessible and opening for refrigeration lines. $\frac{1}{4}$ hp remote condensing unit recommended for low cost operation.

Flexible Hose • • • • P-183

Product: Uniflex flexible metal hose and fitting line.

Manufacturer: The Brockway Co., Naugatuck, Conn.

Features: This new seamless flexible metal hose is made of special alloy seamless bronze tube, fabricated for greater flexibility and longer life. Method of manufacture is said to eliminate brittleness caused by excessive work hardening, resulting in a tough, resilient leak-proof product. Hose is encased in high-tensile bronze



wire braid, permanently attached to couplings designed to relieve hose of

damaging strains. Uniflex fitting provides metal-to-metal seat by means of a seal produced between fitting body and spring washer effect of hose itself; no brazing or packing is required. Once fitting is assembled it is said to remain permanently leak-proof.

Frozen Food Case • • P-184

Product: frozen food merchandising unit, 18 cu. ft. capacity.

Manufacturer: the Haldorf Mfg. Co., Philadelphia.



*Closer reading
in the Normal
Range*

—when you use the new MARSH Compound Retard Gauge

One more shining example of a Marsh refrigeration instrument particularly well fitted to its job is this new Compound Retard Gauge. It provides a full range of both vacuum and pressure indication for systems using sulphur dioxide, methyl chloride, Freon and other refrigerants that will not deteriorate brass, but its retarded movement permits easy, close reading in the important range from zero to 50 lbs.

Produced in a handsome, business-like black steel case with pyralin crystal, this compound retard gauge is one more welcome addition to the Marsh line of quality refrigeration instruments—standard pressure and compound gauges, ammonia gauges, corresponding pressure-temperature gauges, remote reading thermometers and the popular new Marsh "Serviceman" line in single and 4-scale types as briefly described opposite.

All Marsh refrigeration instruments are available with the "Recalibrator"—quickest and best way to correct a gauge or thermometer that has been knocked out of adjustment. Ask for new catalog sheets covering the Marsh line.

JAS. P. MARSH CORPORATION
DEPT. P, SKOKIE, ILLINOIS

SEE the New
MARSH Instruments
at **BOOTH 114**
All-Industry Exposition,
Cleveland Jan. 26 through 29



New 4-scale "Serviceman"

An all-purpose remote-reading serviceman's thermometer. Embodies all the features of the single scale "Serviceman" (below). In addition, shows equivalent pressures for Freon, sulphur dioxide, and methyl chloride.



Standard Serviceman

Checks them to 30 below. Has five feet of tubing, neatly concealed in case when not in use, slender enough to pass between gasket and jamb of closed refrigerator door. Large scale production has made it possible to reduce its price, making it a still more remarkable value.

MARSH

Refrigeration Instruments

BUY FROM YOUR WHOLESALE

Features: Number and size of storage compartments can be regulated to suit needs of individual merchant. Three, four or five compartments can be provided. This feature is made possible by two "floating" partitions that can be located anywhere between stationary dividers that normally segregate interior into three compartments. Partitions may be moved right or left, or removed if desired, to provide interior space wanted. Top and track are of stainless steel; glass lids are removable; superstructure is fluorescent lighted.



1/3 hp compressor mounted in cabinet. Cabinet is of heavy-gauge body

steel finished in white baked enamel and trimmed with aluminum molding strip.

Apartment Freezer • • P-185

Product: apartment size home freezer.

Manufacturer: Marquette Appliances, Inc., Minneapolis.

Features: equipped with counterbalanced top for easy access to frozen foods, full-length hinge and clamp roller type handle for positive, airtight seal. Designed for both freezing and storage. Has white enamel finish with contrasting black linoleum top, black recessed base panel, chrome plated name plate and trim.

Water Cooler • • • • P-186

Product: self-contained 10-gallon capacity drinking water cooler.

Manufacturer: Temprite Products Corp., Detroit.



Features: Top and drain assembly constructed of 18-8 stainless steel with anti-splash guard. Bubbler made so user's lips cannot come in contact with water nozzle; waste water falls only into basin, not on nozzle. Water flow automatically regulated to provide steady stream, unaffected by water pressure variations. Cooler and storage tank also of 18-8 stainless steel. Water is directed to bottom of cooler and leaves through top, eliminating possibility of trapped air in system, it is claimed. Storage tank design is said to prevent cooler damage in event of accidental freeze-up. Cooler and tank are sealed in insulated cabinet, protected against

Latest developments in DEHYDRATION to be demonstrated at

BOOTH 611

ALL-INDUSTRY EXPOSITION

CLEVELAND, OHIO

JAN. 26-29

SEE water put into an operating refrigeration system.

SEE this water removed by liquid and suction line DFN Driers.

SEE the amount of water that can be removed by DFN Driers.

GET latest information on the detection and control of water.

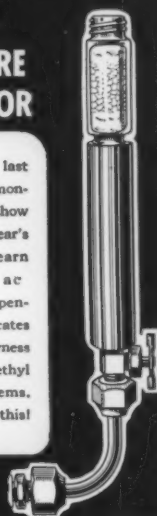
GET latest methods of drying systems prior to charging. For use by manufacturers and service organizations.

Come in and discuss your problems.

How to determine whether system is wet or dry, with

DFN MOISTURE INDICATOR

Introduced at last year's show, demonstration will show results of one year's experience. Learn how easily, accurately, inexpensively it indicates moisture or dryness in Freon or Methyl Chloride systems. Don't miss this!



New! Complete line of LOW-COST STRAINERS for

Header Valves, Solenoids and other liquid controls.
Displayed at Booth 611.



DEHYDRATORS, STRAINERS, FILTERS
MOISTURE INDICATORS

★
McINTIRE CONNECTOR COMPANY

263 Jefferson Street • Newark 5, N. J.

moisture. Unit obtainable with either open or hermetic condensing unit. Glass-filler attachment is optional.

Household Unit • • • P-187

Product: Model DR-77 "Kitchen Saver" Coolerator electric refrigerator.

Manufacturer: the Coolerator Co., Duluth, Minn.

Features: Designed to give maximum storage capacity in a cabinet requiring kitchen space. Unit is only 28" wide and 56 $\frac{3}{4}$ " high, but has 7 $\frac{3}{4}$ cu. ft. storage space, 15.7 sq. ft. of shelf area, and 25 lb. built-in frozen food storage area. Ice cube capacity is 6 lbs. (42 cubes) per freezing; crisper has 20-quart capacity. Insulation thickness is 3". Exterior finish is high baked synthetic enamel. Unit is powered by $\frac{1}{8}$ hp hermetically sealed condensing unit, protected by 5-year warranty. List price \$239.75, f.o.b. Duluth.

Capacitor Housing • • P-188

Product: motor capacitor housing.

Manufacturer: Aerovox Corp., New Bedford, Mass.

Features: These units, formerly held up by steel shortage, are now immediately available. Housing accommodates the standard 1 $\frac{3}{8}$ x 3 $\frac{1}{4}$ " unit. Of heavy-gauge metal, it completely covers and protects capacitor and terminals. No auxiliary caps or brackets are required. Housing fits motor contour snugly and provides rugged, shock-proof installation. Item now in stock both at factory and at wholesalers carrying Aerovox capacitor units.

Masonry Drill • • • • P-189

Product: Concrete Termite rotary drill.

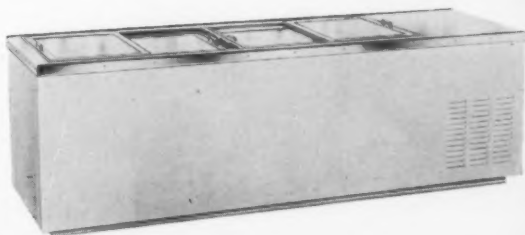
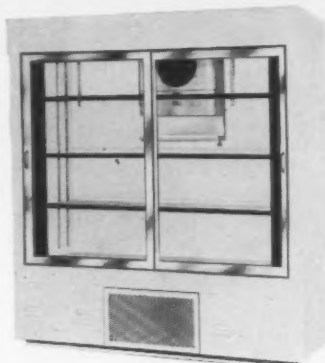
Manufacturer: Concrete Termite Sales Co., Santa Monica, Calif.

Features: Drills through concrete, marble, tile, brick etc. Uses new patented rotary pulverizing action; awarded 16 patent points. Claimed to drill straight, clean, true holes through any masonry-like material. Drills are available in $\frac{1}{4}$ " sizes from $\frac{1}{2}$ " to 1 $\frac{1}{2}$ " diameters, and may be used with any electric drill.

The FRANKLIN LINE

for

- ★ Appearance
- ★ Performance
- ★ Dependability



Check These Features:

- All steel welded construction
- Hydroleened insulation
- Easy sliding glass doors
- Smartly styled
- Economical to operate
- Immediate delivery
- Attractive low prices

Several Dealer
Franchises
Available



FRANKLIN REFRIGERATION CO.

Factory and National Sales Office

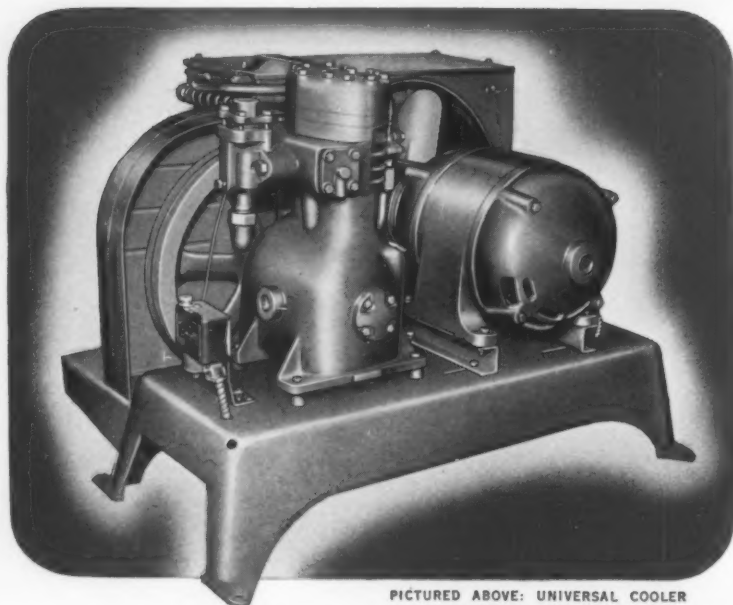
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NEW YORK (55), N. Y.

Manufacturers

Frozen Food Display Cabinets • Dairy Cases • Beverage Coolers • Ice Cream Cabinets

IT'S DEPENDABLE !



PICTURED ABOVE: UNIVERSAL COOLER
3 H.P. REMOTE CONDENSING UNIT.

1/4 TO 15 H. P. REMOTE CONDENSING UNITS FOR COMMERCIAL APPLICATIONS

The unit illustrated is designed especially for heavy duty service in commercial refrigeration applications. Precision-built parts are carefully assembled, the unit is dehydrated, thoroughly run in and tested under actual operating conditions. Tell us about your refrigeration problems—let our sales engineers show you how Universal Cooler can solve them.

BECAUSE . . .

DESIGN — Progressive, alert design engineering for which Universal Cooler is known around the world, pays dividends in efficiency and dependability. Universal Cooler design is **RIGHT**.

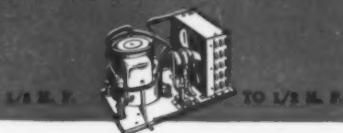
SIZE — Universal Cooler's unmatched range of sizes in three types of refrigerating units gives you the **RIGHT** size for your application—an important factor for dependable service.

MATERIALS — Bronze bearings . . . electric annealing of crankshafts — these and other provisions for long life of moving parts mean added dependability.

METHODS — Elaborate inspection devices used at every step in production assure a dependable **UNIFORMITY OF QUALITY** not otherwise obtainable.

EXPERIENCE — There's no substitute for the cumulative benefits of 25 years' experience reflected in the design and manufacture of every Universal Cooler unit.

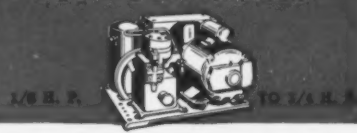
HERMETICS



REMOTES



SELF-CONTAINED



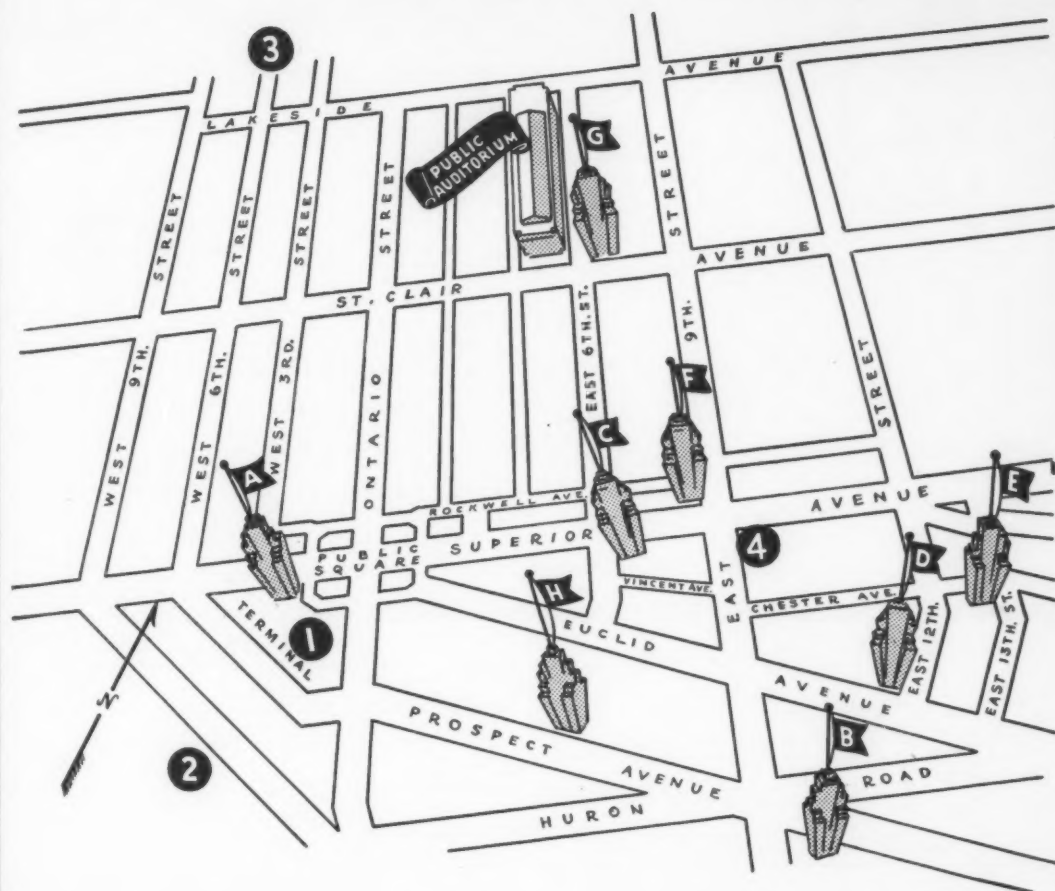
UNIVERSAL COOLER



DIVISION INTERNATIONAL DETROLA CORPORATION
MARION, OHIO • BRANTFORD, ONTARIO

HOW TO GO

from HOTEL TO SHOW



DOWNTOWN HOTELS

- A—Cleveland (REMA)
- B—Carter (NCRSA)
- C—Hollenden (RSES)
- D—Statler (REWA)
- E—Allerton (NARC)
- F—Olmsted
- G—Auditorium (NCRSA)
- H—Colonial

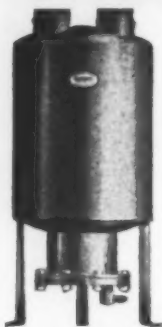


TRANSPORTATION TERMINALS

- 1—Union Terminal
- 2—Erie Station
- 3—Pennsylvania Station
- 4—Bus Terminal

Limousine service connects the Cleveland Municipal Airport with all major downtown hotels.

AMINCO OIL SEPARATORS



Aminco Oil Separators protect compressors by maintaining correct oil level in crankcase and by excluding oil from refrigerant stream they enable coils, condensers, valves and dehydrators to function most efficiently.

These oil separators are made for jobs from 1/4 H.P. to 120 tons and are used everywhere, ashore or afloat, where efficient refrigeration is desired.

Full descriptive bulletins on request.

AMERICAN INJECTOR CO.

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Van D. Clothier, 1015 E. 18th, Los Angeles
George I. Boone, Rm. 739, 1775 Broadway,
New York

W. H. Cody, Santa Fe Bldg., Dallas
Export Borg-Warner, 310 So. Mich., Chicago

YOUR KEY TO THE SHOW ...

Continued from page 68

ager; C. B. Morgan, advertising department; B. J. Gill, sales engineer; L. Linehan, sales engineer, Chicago office; branch managers—N. E. Jennison, N. Y.; A. W. Barr, Boston; A. L. Rubel, Philadelphia; R. V. Clark, Dayton; W. W. Lige, Chicago; G. O. Sanders, Detroit; O. G. Tinkey, St. Louis; J. Moravec, Moline; J. P. Bowen, Atlanta; H. D. Gray, Milwaukee; E. M. Smith, Goshen, Ind.

H. A. PHILLIPS & CO.

SPACE 912

NEW PRODUCTS to be introduced—

Refrigerant injector-recirculators.

OTHER PRODUCTS to be featured—

Float valves for "Freon" and ammonia.

WHO will be there—

E. Grant Phillips, superintendent; George Weick, engineer, contract order department; William Richards, manager Pacific Coast sales.

POLAR HARDWARE CO.

SPACE 124

NEW PRODUCTS to be introduced—

All forged brass commercial refrigerator hardware.

WHO will be there—

George Blumenthal, salesman; Saul H. Blumenthal, sales manager; H. Saul, salesman.

PREST-O-MATIC PRODUCTS CO., INC.

SPACE 405

NEW PRODUCTS to be introduced—

"Prest-O-Matic" soda carbonator.

WHO will be there—

J. F. Hunger, president; N. E. Phelps, treasurer; P. N. Seiler, salesman.

QUILLEN BROS. REFRIGERATOR CO.

SPACE 1009

NEW PRODUCTS to be introduced—

Stainless steel 20-cu. ft. reach-in commercial refrigerators; frozen food self-serve cases.

OTHER PRODUCTS to be featured—

Farm and home freezing units; self serve delicatessen case.

WHO will be there—

Clarence A. Quillen, owner; Stanley C. Bell, general manager; Herman English and R. E. Plunkett, sales department.



RANCO, INC.

SPACE 310 & 312

NEW PRODUCTS to be introduced—

New power elements made of beryllium copper.

OTHER PRODUCTS to be featured—

Regular line of refrigeration controls for domestic and commercial appliances.

WHO will be there—

G. E. Graff, sales manager; Ward Stanley, assistant sales manager; A. J. Meyer, treasurer; R. R. Dunlop, secretary; C. M. Spielman; R. E. Raney, and M. V. Vids, sales department; and all field representatives.

REDMOND CO., INC.

SPACE 1211

NEW PRODUCTS to be introduced—

Type W and Type U "Micromotors" for a.c. operation in sizes up to 1/4th hp.

OTHER PRODUCTS to be featured—

Type T recently improved a.c. Micromotor in sizes up to 1/2th hp with cast housing; Type L a.c. Micromotor up to 1/40th hp; small electric blower units and speed controllers.

WHO will be there—

R. T. Abrell, eastern area sales manager; J. W. Tweedy, western area sales manager; W. R. Fox, advertising manager.

REFRIGERATION APPLIANCES, INC.

SPACE 1015

PRODUCTS to be featured—

1948 design wall type unit coolers; horizontal type unit coolers; floor type unit coolers.

WHO will be there—

E. Niederer, president; J. Eichhorn, chief engineer; W. A. List; F. A. Klaas; Hugh D. Smart.

REFRIGERATION CORP. OF AMERICA

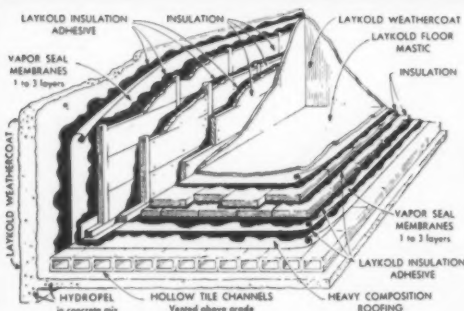
SPACE 508, 510, 512

NEW PRODUCTS to be introduced:

Open-top cabinet-on-wheels and full length open-top, glass front display case; "ice cream center" cabinet and service-bar, featuring 3-dimensional food pictures on all units.

OTHER PRODUCTS to be featured:

Commercial frozen food and ice cream cab-



5
Laykold
PRODUCTS
for
COLD
INSULATION

CONTRACTORS like the COLD application—lower labor cost.

OWNERS like the complete vapor-seal—lower operating cost.

INSULATION ADHESIVE—spray wall—let set—apply membrane.

Spray overlaps and press down—**TIGHT ADHESION**. Spray membrane and insulation blocks, install. Easier, **FASTER**, complete seal with brush or spray.

HYDROPEL—cold liquid admix greatly reduces moisture absorption by concrete walls and floors.

FLOOR MASTIC BINDER—to mix with aggregates for cold-laid mastic floor. Ideal for cold rooms—waterproof, resilient, noiseless, light-weight—withstands traffic.

WEATHERCOAT—odor-proof seal for face of block insulations. To waterproof exterior concrete or brick walls. Trowel, brush or spray.

REFRIGERATION BINDER—to mix with cement and sand for smooth plaster finish on walls—with Lumnite cement for wet-wall adhesive.

Try Laykold COLD Asphalts on ONE job—
cut your labor costs—please your customers.

Ask our nearest office for literature, specifications, prices.

BALTIMORE 3, MD.
E. PROVIDENCE 14, R. I.
PERTH AMBOY, N. J.
COLUMBUS 15, O. • ST. LOUIS 17, MO.

AMERICAN BITUMULS COMPANY
200 RUSH STREET • SAN FRANCISCO 4, CALIF.

WASHINGTON 6, D. C.

OAKLAND 5, CALIF.
LOS ANGELES 15, CALIF.
TUCSON, ARIZ.
BATON ROUGE 2, LA. • SAN JUAN 23, P. R.

inets; conventional ice cream cabinets; institutional, up-front novelty and back-room storage cabinets; farm and home freezers; all-aluminum, sectional, prefabricated walk-ins.

WHO will be there—

John M. Bess; I. A. Ponon; Harvey H. Farber; Leon Epstein; L. C. Stork; F. D. Stevens; M. L. Ackerman; Joseph Berkowitz; J. Robert Burdette; William H. Carrier; Roy Hallberg; Julius Jacobs; Ernest Mowry; Earl Quick; Wendell Stoops; George Thomson.

REFRIGERATION ENGINEERING CO.

SPACE 1205

NEW PRODUCTS to be introduced—

"Polar Freezer" door; "Polar Pet" 10-cu. ft. food display cabinet; book on "Freezing Foods at Home" by Miss Shirley Rolfs, home economist.

WHO will be there—

Fred Kaup, president; Miss Shirley Rolfs, home economist.

THE REFRIGERATION INDUSTRY

SPACE 607

PRODUCTS to be featured—

The Refrigeration Industry magazine.

WHO will be there—

Irving B. Hexter, publisher; Lester P. Aurbach, editorial director; Theodore P. Quinn, editor; James R. McCallum Jr., associate editor; sales representatives—Harold F. Behm, Cleveland; Lee Haas, New York City; Sam R. Tracy, Chicago.

REMCO, INC.

SPACE 425

NEW PRODUCTS to be introduced—

Heavy duty "Cross-Flo" drier-filter in a (3-way operating display); "Liquid-Fin" heat exchanger.

WHO will be there—

K. M. Newcum, president; Walter P. Stewart, assistant treasurer; Thomas E. Scott, Chas. W. Wilmes, Hugo C. Smith, Arthur K. Johnston, Wallace A. Henry, and R. A. Paton, representatives.



ROTARY SEAL CO.

SPACE 207

PRODUCTS to be featured—

Rotary seal replacement units as used by the refrigeration service trade.

SANITARY REFRIGERATOR CO.

SPACE 218

NEW PRODUCTS to be introduced—

Three-zone combination locker and conventional refrigerator.

OTHER PRODUCTS to be featured—

Regular line of home and farm freezers.

WHO will be there—

H. B. Miller, secretary and treasurer; F. J. Bommer, vice president; C. G. Hohensee, district sales manager.

SCHNACKE, INC.

SPACE 123

PRODUCTS to be featured—

Model ATC-5 (5-hp condensing unit);

Model AFC-25 (25-hp condensing unit); Model AE-50 (50-hp condensing unit).

WHO will be there—

F. C. Schnacke, president; E. J. Miller, sales manager; T. G. Thomas, sales representative; Basil S. Miller, sales representative; Parke Syers, chief service engineer; G. A. Lamb, service engineer.

SERVEL, INC.

SPACE 429, 431 & 433

PRODUCTS to be featured—

Representative models of Servel "Super-metic" condensing units.

WHO will be there—

George S. Jones, Jr., vice president, sales; O. J. Dail, assistant to executive vice president; Clyde Ploeger, chief engineer; Bill Aulsebrook, sales manager; Harry Bell, eastern manager; Carl Olin, western manager; George Eager, service manager; John Zubrod, application manager; Bill Cissell, Joe Lutz, Frank Mead, and Al Schmitz, district managers; Norm Schnur, assistant to sales manager; Jack Lance, sales promotion supervisor; Emile Hufnagle, assistant service manager; Ted Parr, field service supervisor.

A. O. SMITH CORP.

SPACE 1219

NEW PRODUCTS to be introduced—

"Smithway" electric motors.

WHO will be there—

Alfred D. Pool, manager electric motors, north central district; J. L. McKinley, sales manager electric motor manufacturing division; L. Malcous, application engineer.

SPENCER THERMOSTAT CO.

SPACE 1008

NEW PRODUCTS to be introduced—



TEMPERATURE RECORDER

Standard Ranges
24 Hour Chart Rotation
—20° to +40°F.
—10° to —50°F.
30° to 60°F.
40° to 100°F.
70° to 130°F.

Convertible to Motor Operation Recorder, or Different Temperature Range, Simply by Changing Door

Any TEMPSCRIBE can be quickly converted to a different temperature range, or to a time-operation recorder, by replacement of the door that forms the front of the recorder. Door removal simply requires lifting out the hinge pin.

The pen of the Operation Recorder is actuated by an electro-magnetic armature, made for either series connection (plug-in connections shown at right) or for parallel connection. Either type has voltage range up to 250 volts, amperage range up to 20 amperes.

For refrigeration shop and service work a widely used TEMPSCRIBE combination comprises one clock case with spring-wound clock for 24-hour chart rotation and two doors (one with —20° to +40°F. temperature element, and one with mechanism for recording motor on-and-off time).

Ask your jobber about TEMPSCRIBE or write for Bulletin 731

BACHARACH INDUSTRIAL INSTRUMENT CO.

7000 Bennett Street - Pittsburgh 8, Pa.



RECORDER for MOTOR OPERATION

Lehigh
BLU-COLD
COMMERCIAL REFRIGERATION

Package Units
Heavy Duty Air and Water
Cooled Units
Lehigh Mfg. Co.
Plant: Lancaster, Pa.
Export Department, 160 Broadway
New York, N. Y.

RECORDED PROOF OF PERFORMANCE

TEMPSCRIBE Records have many applications of practical value to stimulate sales of new appliances, promote customer's good will, and build profitable service business.

TEMPSCRIBE Records do what indicating instruments can't do—they give a 24-hour record of temperature and motor on-and-off time. There is no waste of time watching thermometer readings or clocking motor operation. Just leave your TEMPSCRIBE Records on the job for a time while you handle some other work.

TEMPSCRIBE charts—made before and after servicing—are tangible proof of an installation or service job well done. If the charts indicate that a complaint is due to abnormal use or improper location of the appliance, you have indisputable evidence on hand to explain the situation to the housewife, storekeeper, or plant operator.

In the show room, TEMPSCRIBE charts convincingly prove that temperatures in freeze chest and storage space are maintained within the desired range even at high room temperature.

TEMPSCRIBE Records may be used on practically any household and commercial refrigeration unit, such as dual-temperature refrigerators, home and farm refrigerators, refrigerated display cases, reach-in freezers, walk-in coolers, ice cream cabinets, frozen food cabinets, and refrigerating units used in food freezing plants and locker plants.

A KEYNOTE -- A CHALLENGE

"SALES CAN be great in '48 SELL!"

This challenge will keynote the Fifth All-Industry Refrigeration and Air Conditioning Exposition at the Cleveland Public Auditorium, Jan. 26-29.

"At the Show you'll see this slogan repeated again and again, with the word SELL in big, bold letters," explains F. J. Hood, chairman of the Show committee. "We want to get across the point that next year will be the industry's greatest unless we fail to get out and sell aggressively."

NATIONAL

Refrigerator Hardware

complete sets in matching designs

A wide range of hardware designs for use on Household and Commercial Refrigerators, Reach-in Cabinets, Display Cases, Back Bars, Florists Boxes, Bottled Beverage Coolers, Draft Beer Equipment, Coin Operated Refrigerated Dispensing Machines, Milk Coolers, Low Temperature, horizontal or vertical Cabinets, Stokers, etc.

Consult your jobber for complete information and prices.



NATIONAL
LOCK COMPANY
Refrigerator Hardware Division
ROCKFORD ILLINOIS

Large size hermetic motor starting relay, current type, rating through 1½ hp.
OTHER PRODUCTS to be featured—
"Klixon" motor protectors and starting relays; thermostats; circuit protectors.
WHO will be there—
V. G. Vaughan, vice president; E. F. Kurtz, sales manager; A. P. White and J. Ottmar, sales; R. G. Mawney, J. B. Duffy, J. O. Moorhead, engineering.

SPORLAN VALVE CO. SPACE 219 & 221

NEW PRODUCTS to be introduced—
"Catch-All" filter-dehydrator in ½, ½ and 1-ton sizes.
OTHER PRODUCTS to be featured—
Thermostatic expansion valves; solenoid valves; solenoid pilot controls; refrigerant distributors; strainers.
WHO will be there—
H. T. Lange, president; H. F. Spoehrer, vice president and treasurer; W. T. Carmody, sales manager; M. D. McNany, advertising manager; W. F. Wischmeyer, chief engineer; H. F. Shield, purchasing agent; W. L. Canfield, credit manager; C. C. Grote, eastern district manager; sales engineers—W. A. Reichenbach, A. L. Javes, T. H. Silary, E. C. Fockler, J. E. Dannels, J. T. Barry, P. J. McCarty.

STANDARD REFRIGERATION CO.

SPACE 324 & 326

PRODUCTS to be featured—
Condensers and evaporators.

STANGARD-DICKERSON CORP. SPACE 327

PRODUCTS to be featured—
Stangard cold plates; ceiling plates; sharp freezer plates; various shaped cold plates; ice cream cabinets.
WHO will be there—
V. J. Moss, director of sales; J. F. McCabe, secretary; Rubin Raskin, chief engineer; A. M. Rohr, G. B. Wilson, S. W. Hanna, and M. G. Haynes, salesmen.

STODDARD MFG. CO., INC. SPACE 1019

NEW PRODUCTS to be introduced—
5-cu. ft. apartment table-top domestic refrigerator; 4-cu. ft. kitchen table-top freezer; 13.5-cu. ft. upright freezer.
WHO will be there—
M. C. Stoddard, president; O. B. Gift, factory sales representative; I. C. Whistler, assistant manager.

SUN OIL CO. SPACE 920

PRODUCTS to be featured—
Fountain displays of "Suniso" refrigeration oils. Photographs of "floc" test apparatus and results of "floc" tests conducted at Sun research laboratories.
WHO will be there—
R. H. Anders, general manager, industrial products department; Dr. E. S. Ross, consulting engineer; L. H. Fritz, industrial advertising manager; W. S. Coppock, laboratory technician; J. B. Ferguson, Jr., and C. G. Karsch, advertising assistants.

SUPERIOR VALVE & FITTINGS CO. SPACE 301

NEW PRODUCTS to be introduced—
Driers; double port sight glass; tube extensions permitting the make up of solder connections without removing internal assembly; heat exchangers.

THE REFRIGERATION INDUSTRY

OTHER PRODUCTS to be featured—

Line valves; fittings; charging hose; drum valves; manifolds; compressor valves; check valves and accessories.

WHO will be there—

J. S. Forbes, president; W. A. Siegfried, vice president and general manager; F. N. Robson, assistant sales manager; R. T. Moore, chief engineer; I. W. Wilson, R. C. Robertson, N. M. Dunning, K. W. Rose, J. P. Bowen, and A. L. Cody, representatives.

HALSEY W. TAYLOR CO.

SPACE 120

NEW PRODUCTS to be introduced—

Electric water coolers.

OTHER PRODUCTS to be featured—

Drinking fountains.

WHO will be there—

J. F. King, vice president; T. R. Rose, purchasing agent; H. O. Bartlett, personnel manager; G. A. Kistler, factory manager; C. P. Freer, engineer.

TECUMSEH PRODUCTS CO.

SPACE 708

NEW PRODUCTS to be introduced—

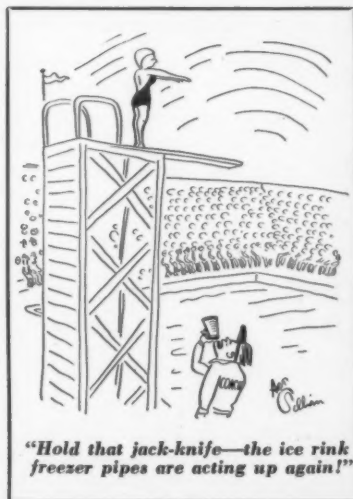
New hermetic equipment for 1948 including models with Freon 22 compressors.

OTHER PRODUCTS to be featured—

Complete line of conventional and hermetic compressors and condensing units from 1/8 through 1/2 hp.

WHO will be there—

C. M. Brown, general manager; F. K. Smith, sales manager; L. W. Larsen, assistant sales manager; J. K. Touborg, chief engineer; F. G. Purcell, service sales manager; field men—G. I. Boone, G. B. Boone, J. W. Beneke, H. F. Moon, M. A. Shantz, R. T. Smith, W. S. McCloud, W. C. McCloud, W. H. Cody, A. L. Cody, J. A. McLaren, J. E. Parker, F. E. Sutton.



TEMPRITE PRODUCTS CORP.

SPACE 509

NEW PRODUCTS to be introduced—

Package carbonator; self-contained water coolers.

OTHER PRODUCTS to be featured—

Beer coolers; self contained water coolers; cooler carbonator; carbonator; oil separator; soda fountain coolers; equalizer tanks and all standard products.

WHO will be there—

L. Emde, P. F. Lesley, O. F. Nelson; James J. Goodwin; James W. Archibald; Austin L.

Gordon

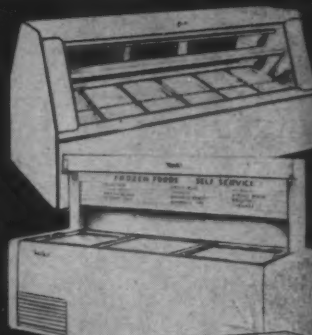
AMERICA'S MODERN COMPLETE LINE

—has what it takes for a great '48!

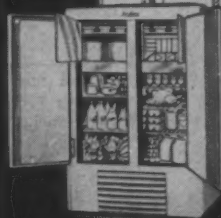
REACH-INS



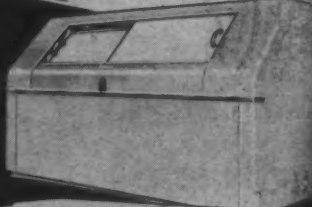
DISPLAY CASES



FROZEN FOOD CASES

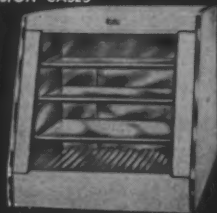


BEVERAGE COOLERS

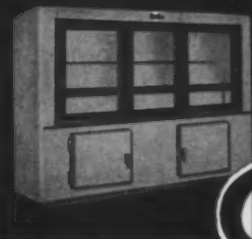


STORAGE FREEZERS

FULL VISION CASES



WALL DISPLAY CASES



1. A complete line—
2. A smart line—
3. A promotion line.

We are now prepared to handle additional distributors and dealers. Inquiries invited on the new JORDON 1948 line.

Gordon

AMERICA'S MODERN COMPLETE LINE

JORDON REFRIGERATOR CO.



PLANT: PHILA., PA.

Sales Division
38th & Gray Ave., Philadelphia 43, PENNA.
CABLE: "JORDONREF" REGD. 6-4510

YOU'LL FIND
Eston
REFRIGERANTS
ARE BETTER!



Distributors of
FREON 11-12-22-113

Years of use in all types of refrigeration equipment have proven Eston refrigerants are superior. All are of sustained high quality with exceptionally low moisture content. Servicemen say Eston refrigerants give better performance and more efficient operation. Eston jobbers are conveniently located. Write for complete information.

*In the West it's
Eston for Refrigerants*

Eston
CHEMICALS, Inc.
3100 East 26th Street
Los Angeles 23, Calif.

Brown; H. B. Weeks; I. H. Cohler; R. L. Williams; J. D. Merkle; J. S. Cortines.

TENNEY ENGINEERING, INC.
SPACE 423

NEW PRODUCTS to be introduced—

Model TS 1-A thermostatic expansion valve; automatic "defrostulator."

OTHER PRODUCTS to be featured—

Unit cooler; ice maker; wall mounted panel unit; coil and pan.

WHO will be there—

Monroe Seligman, president; Cleve A. Sewell, vice president; Saul S. Schiffman, treasurer; William E. Collins, advertising manager.

TEXAS CO.

SPACE 904

PRODUCTS to be featured—

Various viscosities of refrigeration oils required in industry, and a display apparatus which permits visualization of the phenomenon of refrigeration actually occurring.

EMERY THOMPSON MACHINE & SUPPLY CO.

SPACE 1016

NEW PRODUCTS to be introduced—

2½-gallon (10 quart) ice cream freezer.

OTHER PRODUCTS to be featured—

20-quart Freon freezer; 40-quart Freon freezer; 20-quart ammonia freezer; 40-quart ammonia freezer; combination units; hardening cabinets and bobtail.

WHO will be there—

John M. Treble, sales manager.

TORRINGTON MFG. CO.

SPACE 1108

NEW PRODUCTS to be introduced—

"M" Series attic fan blade.

OTHER PRODUCTS to be featured—

Propeller type fan blades and centrifugal blower wheels for a wide variety of heating, ventilating, and other air-moving equipment.

WHO will be there—

Donald G. Leslie, vice president in charge of sales; Roger T. Lyman, advertising and sales promotion manager; William E. Morrison, assistant laboratory director; F. R. Wheelan and A. N. Casadei, sales department.

TYLER FIXTURE CORP.

SPACE 1002 & 1004

NEW PRODUCTS to be featured:

Self service frozen foods case; self service dairy refrigeration reach-in box; beverage cooler; conventional meat case.

WHO will be there:

Robert L. Tyler, president; Joseph W. Krall, executive vice president; Paul Jackel, general sales manager; J. B. Hennion, sales promotion manager; Ray Greene, assistant sales manager; Fred Eaton, Harder Freez sales manager; Hugh Cooper, divisional manager; Doyle Carpenter, divisional manager; Charles Raas, store planning manager; Roger Sisson, divisional manager.

TYPHOON AIR CONDITIONING CO., INC.

SPACE 907

NEW PRODUCTS to be introduced—

1½, 2, and 3-ton self-contained air conditioning units.

OTHER PRODUCTS to be featured—

3, 5, and 7 ton self-contained air conditioning units—improved models of present line.

WHO will be there—

J. F. Dailey, president; Don Petrone, sales manager; M. Kabil, chief engineer; E. L. Garfield, treasurer.

UNITED FRIGURATOR ENGINEERS

SPACE 427

NEW PRODUCT to be introduced—

Refrigerated stainless steel bottle cooler; sanitary stainless steel restaurant sink.

OTHER PRODUCTS to be featured—

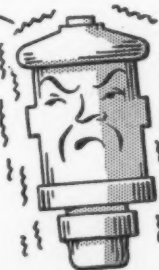
Stainless steel direct draw dispensers.

MAGIC IN A SMALL
BOTTLE

**FREEZE-UPS
ELIMINATED
RIGHT AWAY!**



ICE-X quickly cures emergency freeze ups when ice forms at the expansion valve or capillary tube. Harmless to use. Great for Freon, Carrene, or Methyl Chloride systems . . . The dependable liquid anti-freeze.



"ONE SERVICE MAN TELLS ANOTHER - IT'S GREAT"
ORDER FROM YOUR JOBBOR OR -

EXCLUSIVE NATIONAL DISTRIBUTOR
THE HARRY ALTER CO. 1728 S. MICHIGAN AVE.
CHICAGO 16, ILLINOIS
JOBBER: WRITE FOR SPECIAL PROPOSITION!

WHO will be there—
Ray W. Neuman, manager; Al Slatin, Chicago sales manager.

UNITED REFRIGERATOR MFG. CO.

SPACE 511 & 513

NEW PRODUCTS to be introduced—
25 cu. ft. reach-in; utility storage cooler; combination beer dispenser and bottle cooler; two-temp reach-in.

OTHER PRODUCTS to be featured—
Ice cube maker; metal clad walk-in; two-temp walk-in; wood walk-in.

WHO will be there—
R. S. Wieding, president; M. S. Olsen, advertising manager; E. A. Karp, credit manager; Fred Gibbs, purchasing agent; Ken Macheusie, chief engineer; six district managers.



UNIVERSAL COOLER DIV.

SPACE 127, 129, 131, 133

NEW PRODUCTS to be featured:
Universal Cooler air-cooled condenser; capacitor hermetic condensing unit; split phase hermetic unit.

OTHER PRODUCTS to be shown:
Self-contained open type condensing unit; 3 hp air-cooled condensing unit; condensers for air-cooled applications.

WHO will be there:
F. S. McNeal, vice president and general manager; T. S. Pendergast, assistant to general manager; J. P. Scott, director of sales; C. M. Hatcher, advertising and sales promotion manager; A. E. Cadwell, K. C. Goodrich, J. L. Zant, E. D. Halsey, J. R. Siegert, sales engineers; D. P. Mandery, assistant director of sales; W. W. Higham, director of engineering; J. J. Kelly, director of material; R. J. Alcorna, director of purchases; R. E. Hunt, works manager; Walter E. Martin, controller; C. K. Carter, application engineer.

VICTOR PRODUCTS CORP.

SPACE 1012

NEW PRODUCTS to be introduced—
"Hi-temp" reach-in with 30 cu. ft. capacity.

OTHER PRODUCTS to be featured—
"Quickfreeze"; beverage cooler; milk cooler; frozen food display case.

WHO will be there—
J. K. Noel, Jr., vice president in charge of sales; Sloan Willis, advertising and sales promotion manager.

VICTORY METAL MFG. CORP.

SPACE 501 & 601

NEW PRODUCTS to be introduced—
Stainless steel combination sandwich unit and toaster stand; full vision display case; direct draw beer systems.

OTHER PRODUCTS to be featured—
Reach-in refrigerators; bottle coolers; back bar and wall case.

WHO will be there—
A. Raymond Costantini, president; Harry Kaiser, sales manager; Anthony Di Angelus, secretary and treasurer.

VIRGINIA SMELTING CO. SPACE 204 & 206

PRODUCTS to be featured—
Refrigerants—sulfur dioxide and methyl chloride.

WHO will be there—
A. K. Scribner, general manager; R. H. Israel, sales manager, refrigeration department; H. B. Channon, manager technical service; H. T. Palmer, assistant sales manager, refrigeration department; J. R. Eldridge, manager, New York office; F. W. Binns, sales department, Boston office; W. C. Dever, district representative (Detroit); W. B. Arbuckle, district representative (Houston); E. V. Dunbar, district representative (Atlanta).

SPECIAL ACTIVITIES—
A surprise entertainment feature for the benefit of visitors to this exhibit.

WABASH MFG. CO. SPACE 302

NEW PRODUCTS to be introduced—
Oil separator ("Sep-return"); high-side float; midget dryers (2-3-4 in 3 capacities); giant dryers (50-100-150-200 in 3 capacities).

OTHER PRODUCTS to be featured—
Dryers; strainers; capillary tubes; capillary tube heat exchangers; charging hoses; speed couplers.

WHO will be there—
E. W. Mack, president; M. T. Cahenzli, vice president; R. E. Caplan, engineer.

WAGNER ELECTRIC CORP. SPACE 1118

NEW PRODUCTS to be introduced:
Nema 66 frame, ¼ hp, single phase motor.

Steel Cylinders

WAR SURPLUS BARGAIN SPECIAL!

Brand New!

High Pressure Cylinders
for freon, methyl chloride, sulphur dioxide, gas, CO₂, oxygen, hydrogen, etc.

For the refrigeration industry . . .
Will hold 5 lbs. of Freon . . . constructed with ½" male valve, manufactured for government under rigid specifications for chemical warfare use . . . light weight of 7 lbs., extremely strong, wire-bound, shatter-proof . . . withstand I.C.C. tests, for 1800 lbs. (I.C.C.3A-1800) . . . test valid through January, 1949 . . . worth many times this amazing low price.



\$2.00
each
F.O.B. Chicago

\$1.40
each—lots of 8
F.O.B. Chicago

\$1.25
each—lots of 100
F.O.B. Chicago

Individually packed with 8 to master carton.

MONEY BACK GUARANTEE if not satisfied . . . return within ten days.

Send check or money order today!

GROBAN SUPPLY COMPANY

Dept. RI-5, 1522 S. Michigan Ave.
Chicago 5, Illinois

OTHER PRODUCTS to be featured:
Motor repair parts kits.

WARD REFRIGERATOR & MFG. CO.

SPACE 1121 & 1221

PRODUCTS to be featured—
Complete line of "Monterey" metal-clad refrigeration cabinets and display cases.

WHO will be there—

Harry Ward, president; D. T. Ward, vice president; S. E. Talbot, sales manager; Gordon H. Fitch, assistant sales manager; G. Rigdon, plant engineer; Joe H. Free, Harold J. Kelley, and L. A. Stark, division managers.

WEATHERHEAD CO.

SPACE 119

NEW PRODUCTS to be introduced—

Improved diaphragm packless valves, dryers, and accessories.

WHO will be there—

James A. Strachan, refrigeration sales manager; Charles H. Boylan, refrigeration sales engineer.

WEBER SHOWCASE & FIXTURE CO., INC.

SPACE 1117

NEW PRODUCTS to be introduced—

"Frozel" low temperature self-service case for frozen foods and ice cream; "Super Serv-Master" produce display case.

OTHER PRODUCTS to be featured—

"Roll-A-Door" frosted food and ice cream cabinet; "Serv-Master" standard temperature self-service case.

WHO will be there—

Don Hille, manager of dealer sales, national sales division; John Haidinger, sales promotion manager, national sales division; Cal Coleman, Fred Schultz, and Jerry Hileman, district managers, national sales division.

WESTINGHOUSE ELECTRIC CORP.

SPACE 419

NEW PRODUCTS to be introduced—

1948 water cooler line; explosion-proof cooler for hazardous locations; 1948 milk cooler line with new finish styling and hermetically sealed drop-in units.

WHO will be there—

F. E. Moquin; John White; R. E. Ditsler; E. H. Wilkins, Jr.; H. F. Hildreth; J. B. Baughman.

WHITE-RODGERS ELECTRIC CO.

SPACE 211 & 213

PRODUCTS to be featured—

Complete line of refrigeration pressure and temperature controls, including automatic defrost control.

WHO will be there—

L. F. Blough, president; Jack Searls, vice president; Charles Taber, assistant sales manager; E. E. Harwood, Atlantic division manager; Ray Schmitz, Columbus district manager; Chas. O'Brien, sales engineer; D. O. Eggert, service manager; E. C. Robinson, advertising manager.



STERLING

Junior's

**BIG THREE
ADVANTAGES**

You'll see these advantages: spacious storage, dramatic display, counter-high utility—when you see STERLING JUNIOR in Booth 1013 at the all-industry exposition. And—here's an *extra!* You'll also see the new STERLING Baker's Case—latest unit released by Minneapolis Showcase and Fixture Co. Examine them both for the quality construction and unusual versatility that makes these two counter-high cases STERLING buys for food department or small store.

STERLING cases are nationally distributed and nationally accepted. A few territories are yet available for dealers. Write now for details.

28 Years
Quality
Service

Minneapolis Showcase and Fixture Co.
1011 WASHINGTON AVE. S. • MINNEAPOLIS, MINN.



WILSON REFRIGERATION, INC.

SPACE 702, 704 & 706

NEW PRODUCTS to be introduced—

"Stor-Safe" Model RB-25 commercial refrigerator with forced air cooling; two-temperature refrigerator; "Hi-Boy" home freezer, capacity 6.3 cu.ft.

OTHER PRODUCTS to be featured—

"Zero-Safe" farm and home freezers—self-contained models FF-15 and FF-25, sectional models FF-30 and FF-60; "Zero-vault" sectional low temperature walk-in; "Stor-Vault" sectional normal temperature walk-in; "Zero-Flow" 8 can milk cooler.

WHO will be there—

J. E. Wilson, Jr., president; A. A. Davis, vice president in charge of sales; C. R. Mougey, advertising and sales promotion; H. R. Shapley, assistant sales manager; R. C. Price, sales engineer; R. D. Pusey, chief engineer.

WOLVERINE TUBE DIV. SPACE 505

PRODUCTS to be featured—

Seamless non-ferrous tube; fabricated tubular parts; "Trufin" integral finned tube; a refrigeration condenser comparison unit featuring Wolverine products in application.

WHO will be there—

W. H. Maxwell, general sales manager; J. A. Marshall, assistant to general sales manager; H. A. Harty, advertising manager; W. P. Hill, product development supervisor; A. S. Kingerley, salesman.



YODER CO.

SPACE 1014

PRODUCTS to be featured—

Refrigeration plates.

YORK CORP.

SPACE 420 & 422

WHO will be there—

D. C. Seitz; W. E. Landmesser; J. R. Hertzler; J. Donald Smith; H. L. Hupp; B. C. Reeder; W. H. West; M. J. Lash; C. J. Schurman; H. S. Yoder; M. S. Lehair; C. C. Strauch; Leon E. Kinley.

AMERICAN REFRIGERATOR & MACHINE, INC.

SPACE 711

NEW PRODUCTS to be introduced—

1948 line of food freezers; model ABC-8—8 cu. ft. capacity; model ARC-15—15 cu. ft. capacity; model ARC-22—22 cu. ft. capacity.

OTHER PRODUCTS to be featured—

ABC-6 bottle cooler; ADFC-15 display freezer.

WHO will be there—

R. W. Dreher, president; O. V. Tyler, factory manager; J. V. Hartman, assistant sales manager; Mary L. Schock, receptionist.

REFRIGERATION ENGINEERING, INC.

SPACE 914-A

NEW PRODUCTS to be introduced—

Recold Tinyrite suctionair evaporator; Recold evaporative condenser; Recold "Supreme" coil.

OTHER PRODUCTS to be featured—

Recold water defrost evaporator; standard line of refrigeration coils.

WHO will be there—

H. T. Harvis, vice president-general manager; W. T. Hancock, president; Peter Askew, distributor; Daniel D. Wile, chief engineer; Sterling F. Smith, direct factory representative.

**BUY FROM YOUR
REFRIGERATION WHOLESALE**

ILLINOIS RSES HOLDS ANNUAL MEETING

Educational discussions covering various phases of refrigeration servicing highlighted the recent 10th annual meeting of the Illinois Association of the Refrigeration Service Engineers Society recently in St. Charles, Ill. Total attendance was 230, with more than 100 of the 150 who registered being servicemen, the other registrants being wholesaler and manufacturer representatives.

Officers named by the Illinois As-

sociation for next year were: William McCarley, Joliet, president; Frank Frazee, Chicago, first vice president; Leslie Sturch, Rockford, second vice president; Berl V. Clark, Aurora, secretary; Ralph Porter, Bloomington, treasurer; and Charles Fox of Springfield, sergeant-at-arms.

Willis Stafford was general chairman of the two-day meeting, assisted by Mr. and Mrs. William McCarley, Harold Anderson, Mr. and Mrs. R. E. Marquis, B. V. Clark, Harold Ellis, Mr. and Mrs. Clem Berg, Mr. and Mrs. Ralph May, and Hendrickson.

A New Better Different



**SEE US AT
CLEVELAND
BOOTH 125**

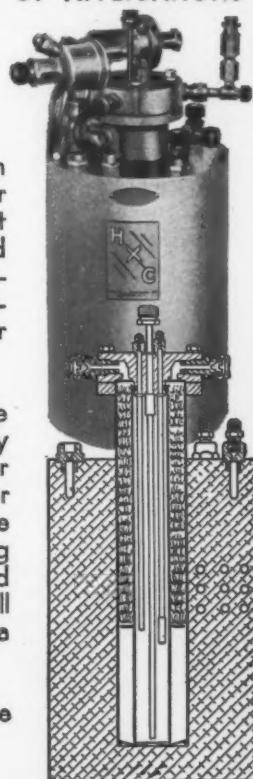
COOLER CARBONATOR

SELF-CONTAINED FOR A VARIETY OF APPLICATIONS

● The famous Heat-X-Cast Aluminum Cooler now incorporates a carbonator . . . and like all other Heat-X equipment . . . is compact, simple, efficient and rugged. Result: a unit with many advantages for soda fountains, counter dispensers, vending machines and other applications.

HOW IT WORKS: Water entering the casting is cooled and then alternately with CO₂ gas enters the mixing chamber in the lucite carbonator head. Water and gas pass through atomizing orifice holes, and stainless steel wool permitting absorption of the gas. The carbonated water level in the bottom of the shell controls the water pump through a floatless relay.

Compact pump, motor and relay in one small unit.



THE HEAT-X-CHANGER CO., INC.
415 Lexington Avenue, New York 17, N.Y. Brewster, N.Y.

"Butcher Boy" COLD STORAGE DOORS

Exclusive Features

- ★ 100% DOUGLAS FIR DOORS
- ★ CONTROLLED QUALITY
- ★ OUTSTANDING APPEARANCE
- ★ LOWEST PRICES IN THE INDUSTRY

**STANDARD
FREEZER
DOOR**
with
STANDARD
HARDWARE



**SUPER-
FREEZER
DOOR**
(OVERLAP)
with
SUPER-SEAL
FASTENERS
and
FINGER-TIP
DOOR
OPENERS
(EXTRA)

**TRACK
DOOR**
with
STANDARD
HARDWARE



BUTCHER BOY
COLD STORAGE DOOR CO.
170 N. SANGAMON ST., CHICAGO, U.S.A.

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PLEASE RUSH BULLETINS
ON COLD STORAGE DOORS

NAME _____
ADDRESS _____
CITY _____ STATE _____

CONTRACTORS

News • Activities • Plans

While *The Refrigeration Industry* is not the official publication of the National Association of Refrigeration Contractors, the Editors assign this space each month to the association. The information below is furnished, for the most part, by the offices of the association and its local affiliates.

J. J. Helminak is New NARC Vice President

Gerald W. Weston has resigned as executive vice president of the National Association of Refrigeration Contractors, and has been succeeded by J. J. Helminak of Cleveland.



According to Mr. Weston, the rigors of the Cleveland winter have undermined Mrs. Weston's health; consequently, they are returning to Los Angeles. En route he planned to hold meetings with NARC members and interested contractors in some of the important cities such as Kansas City, Oklahoma City, Dallas and Fort Worth, Houston, Galveston, San Antonio, El Paso, and Phoenix.

Mr. Weston says that his future plans are uncertain, and will not be definitely settled until he reaches Los Angeles to personally check into several possibilities.

Mr. Helminak brings to the position a broad, well-rounded business experience. His early background included selling, credit and collections, and vocational work. Later he became assistant treasurer of a large Cleveland manufacturing concern. This was followed by an association with a business management corporation which operated as counselors in management, production, finance, export, sales, advertising and labor relations.

NARC SEEKS TO CLARIFY WAGE-HOUR STATUS

Status of refrigeration contractors in relation to the Wage-Hour Law is again in doubt, and NARC national headquarters is seeking to clarify it.

Previously the administration had ruled that commercial refrigeration employees were covered by it, but that it did not apply to domestic refrigeration employees.

Recently, however, all previous interpretations were rescinded and NARC has written the new administrator in an effort to get specific information on just where contractors stand under the legislation.

DETROIT GROUP HEARS ABOUT NEW LAW

Members of the Refrigeration Contractors Association of Detroit heard an explanation by their executive secretary, Frederick G. Bolton, of the recently enacted Community Property Law, at their meeting December 11 in the Detroit Air Conditioning Institute.

Contractors were the guests of George H. Clark, director of the institute, and Mr. Clark also gave a brief talk on "Coordinating Engineering Education with Industry." Following the meeting, members visited the institute laboratories and classes and discussed various phases of the training program with staff members of the school.

Directors of the association met briefly prior to the general business meeting.

WISCONSIN CONTRACTORS TO ASK LICENSE LAW

Legislation requiring refrigeration contractors to secure state and local licenses will be sought in the interest of public welfare and safety by the Refrigeration Contractors Association of Wisconsin.

Henry Rozga, newly elected president of the association, made the an-

nouncement at the close of the group's two-day convention Nov. 29 and 30 in the Schroeder hotel, Milwaukee.

E. F. Anderson, retiring president of the Wisconsin state association, said in an address at the meeting that the incompetence of some contractors now in the field is a menace to life and property. Irresponsible contractors and their employees, he asserted, must be kept from creating hazards for the public and themselves. State licensing, he said, would be one solution to the problem.

Pointing out that many dangers are involved in improper installation and repair of refrigeration equipment, Mr. Anderson said that methyl chloride, for example, can be extremely hazardous if it is not handled with proper knowledge of and attention to its toxic properties.

Besides, Mr. Rozga, other officers elected at the convention were Fred



Hansen, Fond du Lac, vice president; John J. Geering, Milwaukee, secretary; Wilmer C. Rehbein, Appleton, treasurer, and Fred Boehme, Milwaukee, sergeant-at-arms.

Messrs. Rozga, Geering, Hansen and Rehbein were elected directors for two-year terms; Messrs. Boehme, Anderson, and Fred Godeman, of Sheboygan, for one-year terms.

Speakers at the meeting also included Warren W. Farr, president of National Association of Refrigeration Contractors, and Ed Wright, first vice president of NARC. Another speaker was Paul B. Reed, manager of the refrigeration controls division of Perfex Corp., Milwaukee, who sounded a warning to contractors against engaging in ruinous competition. Such a practice, he asserted, cannot help but work to the detriment of the entire local industry.

FIGHT CONTINUES ON DAIRY LAW VIOLATIONS

At the request of the bureau of market enforcement of the California state department of agriculture, members of the Refrigeration Contractors Association are continuing to cooperate to the fullest possible extent in reporting alleged violations of the recently-enacted dairy and ice cream law.

It was largely through the association's efforts that the California legislature enacted the law prohibiting sales of refrigeration equipment at

less than list prices by dairy and ice cream concerns in the state.

Widespread interest in the law on the part of contractor groups in other states is reported by the California association. To assist its own members in reporting alleged violations promptly and properly, the association has developed a simple report form which includes all essential information such as name of the alleged violator, name of customer where alleged violation took place, date of transaction, make and type of equipment, whether it was a sale or a



PRESENTS...

Terminal leaks on sealed units permanently stopped—easily—quickly—economically—with WATSCO REPLACEMENT TERMINALS in FIVE MINUTES. Can be installed on the job without removing the unit. No special tools required.

Terminals come three to a set as follows:

- #1 — For Crosley F-12 Unit
- #2 — For Frigidaire up to and including 1937
- #3 — For Chieftain, Coplomatic, Gibson, Kelvinator, Norge, Philco, Tecumseh, Westinghouse and Coldspot.
- #4 — For Frigidaire 1938
- #5 — For Frigidaire 1939

\$5.50

per set



MASTER CRAFTSMEN OF
PRECISION MACHINE PRODUCTS...
FOR THE REFRIGERATION INDUSTRY

Wagner

TOOL AND SUPPLY CORP.

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**Faster. Accurate
DRILLING
in MASONRY
with the
CYCLONE
Carbide Tipped
ROTARY BIT**

The New, Easy Way with the new CYCLONE Masonry DRILL, fastest, most accurate drill ever made. For concrete, brick, tile, slate. Do your job 4 to 8 times faster, without effort, with the drill that stays sharp longer and outlasts ordinary steel bits 50 to 1. Fits hand brace, electric drill or drill press.



Come individually packaged or in handy kit of six popular sizes

NEW ENGLAND CARBIDE TOOL CO., INC.
CAMBRIDGE 19, MASS.

rental deal, and a brief statement of the circumstances which in the contractor's opinion make the deal unlawful.

Some dairies and ice cream companies, the California association reports, already have indicated their desire to cooperate in securing compliance and enforcement of the new law. In the opinion of the association, this makes it even more important that every opportunity be taken by contractors to make the law as effective as possible.

NARC ACTS TO HOLD LINE ON DISCOUNTS

Headquarters office of the National Association of Refrigeration Contractors is making a concerted effort to call to the attention of manufacturers concerned what it believes is an unfair situation in relation to discounts quoted on some of the products listed in so-called "all-time" catalogs issued by these manufacturers.

According to reports to NARC, while list prices in the catalogs remain constant, the discount to the contractor has been steadily revised

downward, in some cases to as low as 5 percent. NARC members' contention is that contractors cannot be expected to sell or assume responsibility for a product that does not allow them a fair profit. If such a policy should become general, NARC holds, it is bound to reflect to the detriment of contractors generally.

CALIF. CONTRACTORS IN ANNUAL MEETING

Election of five new directors highlighted the 1947 annual meeting of the general membership of the Refrigeration Contractors Association of Northern California, held December 10 at St. Julian's Cafe in San Francisco.

Committee in charge of the dinner meeting and entertainment was headed by Everett Stahl, San Francisco, with Ray Winther and Gene Moschetti of San Francisco and Bruce Scholes and Bob Pitcher of Oakland as members.

Five directors were to be elected, retiring directors being Quigly Watt, J. A. Scatena and Ed Tanner of San Francisco and E. H. Sattler and Al Robinson from the East Bay area. Officers were to be elected by the directors, in accordance with the association's by-laws.

Nominating committee was comprised by W. E. Scott and Ed Tanner of San Francisco and Al Robinson and J. B. Chapman of Oakland.

BELL-HUGHES MOVES TO NEW BUILDING

Bell-Hughes & Knowles, Fresno, Calif., has recently moved into a new \$60,000 building at 1947 Blackstone Ave. In moving to the new building, Mr. Hughes, president of the firm, announced that the company had combined its refrigeration and air conditioning business with the R. D. Knowles sheet metal shop. Charles G. Bell and Hughes started in the refrigeration field in 1927, and their partnership was formed in 1943.

COAST CONTRACTOR TO ENLARGE BUILDING

A building permit has recently been issued for the construction of an addition to the store building of Surfas Refrigeration Co. at 4014 West Jefferson Blvd., Los Angeles. The addition, to cost \$6,000, will cover an area of 40 x 40 feet.

NOW!

FORGED FLARE NUTS AND FITTINGS

Ask your jobber for Details

Electrimatic

2100 INDIANA AVE CHICAGO 16 ILLINOIS

COMMERCIAL *Refrigerator* SALES NEWS

While *The Refrigeration Industry* is not the official publication of the National Commercial Refrigerator Sales Assn., the Editors assign this space each month to the association. The information below is furnished, for the most part, by the offices of the association and its local affiliates.

Plan Cleveland Sales Group



Among those Cleveland commercial refrigerator distributors who attended a meeting November 18 with a view to organizing a local chapter of the National Commercial Refrigerator Sales Association were: Glen Keller, Allied Refrigeration Sales Corp.; Mr. Lowry and Mr. Henderson, Mandrake Refrigeration & Equipment Co.; Harry Hattenbach, Jr., Hattenbach & Son Co.; Ernie Farr and V. C. Cutts, Bell Refrigeration Corp.; Jared Faulb, Schwenger-Klein, Inc.; and John Tyler, Tyler Refrigeration Equipment Co. R. H. Muehlberg, executive secretary of the national association, also was present.

NCRSA GROUP FORMING IN CLEVELAND

Some 20 representatives of Cleveland commercial refrigerator sales firms attended a meeting in that city on November 18, with a view to organizing a chapter of the National Commercial Refrigerator Sales Association in that city.

H. A. Hattenbach, Jr., national treasurer of NCRSA, was chairman of the meeting, and R. H. Muehlberg, executive secretary of the association, was a speaker. A number of new members were enrolled at the meeting, and a second meeting was scheduled for later in December to which all commercial refrigerator distributors and dealers in the Cleveland area were to be invited.

TAKES NEW POST

E. G. McLeroy has joined the staff of Refrigeration-Appliance, Inc., At-

lanta, as sales engineer, announces J. C. Jordan, president of the firm, a Hussmann distributor. Mr. McLeroy for several years was with the Atlanta branch of McCray Refrigeration Co.

NEW COMMERCIAL GROUP FORMED IN S. DAKOTA

A new local commercial refrigerator group affiliated with the National Commercial Refrigerator Sales Association, with headquarters in Sioux Falls, S. D., was organized at a special meeting held in that city on November 17.

Ralph Larson, of the Gustafson-Larson Co., Sioux Falls, was elected president. Mr. Larson has been associated with the refrigeration business for the past 15 years, and is well known throughout the state.

O. C. Solheim, of Sioux Falls, was elected first vice president of the new association; Clarence Bruce, second vice president; and Clarence D. Kutil,



AMERICAN RECORDING THERMOMETERS. For indicating and recording times and temperatures in Locker, Cold Storage and Chill Rooms and for other refrigerating services. Quality that survives! Accuracy that endures.



HANCOCK FLO-CONTROL VALVES. Control flow through the lines with amazing accuracy. Adjustable to a hundredth turn of the wheel. "Hancock" engineering insures long life, the minimum trouble and an extremely low cost per year.



AMERICAN THERMOMETERS. Damp-proof, dust-proof and enduringly accurate. Wide-angled construction admits maximum light through glareless glass. Broad stripe of red-reading mercury against clear-cut scale makes reading quick and easy.



MANNING, MAXWELL & MOORE, INC.
BRIDGEPORT 2, CONNECTICUT

Makers of 'American' Industrial Instruments, Hancock Valves, Ashcroft Gauges, Consolidated Safety and Relief Valves



THE LIQUID EYE

- Eliminates Pressure Drop ...
- Light, sturdy construction ...
- Positive reaction of indicator ...
- Pyrex tubing insures safety ...
- Proven under actual field conditions ...
- Pliable gaskets are impervious to Methyl Chloride, Freon-12, Sulphur Dioxide and Refrigerant Oils ...

Order this LIQUID EYE from your jobber now.

ALLIN MFG. CO.

4025 Armitage Avenue
Chicago 39, Illinois Phone: CAPitol 8454

secretary-treasurer. A board of directors was elected, comprised of J. H. Gibbs, and Paul Modica. All of the men mentioned are from Sioux Falls.

Additional meetings have already been scheduled for 1948, and it is the hope of the group that eventually the membership will encompass all towns and cities throughout the South Dakota territory.

A speaker at the organizational meeting was R. H. Muehlberg, executive secretary of the National Commercial Refrigerator Sales Association, who outlined to the group the benefits of NCRSA affiliation.

"AMERICAN" NAMES ROGERS DISTRIBUTOR

Charles R. Rogers of Modern Appliance Co., San Mateo, Calif., has been named exclusive distributor of American Refrigerator & Machine, Inc., products in that state, according to R. B. Hartman, American sales manager.

American products will be handled from warehouses in both Los Angeles and San Francisco in order to render better service to the California trade.

B. R. DAVIDSON FORMS OWN DISTRIBUTOR FIRM

B. R. Davidson, formerly manager of the refrigeration division of Hussmann Refrigerator Co., St. Louis, has organized Thermorite Corp., with headquarters at 5579 Pershing Ave., St. Louis, to handle the engineering and distribution of a complete line of commercial refrigeration and refrigerator products, most of which will be merchandised under the "Thermorite" name.



Distribution will be on a national scale, Mr. Davidson said, and outlets are being appointed throughout the country.

Well known in the industry, Mr. Davidson, who was with the Hussmann organization for 11 years, was prior to that time in charge of refrigeration for Kroger Grocery & Baking Co. for five years. For the past year he has done consulting work.

5th
ALL INDUSTRY
Refrigeration & Air Conditioning
Exposition
CLEVELAND
JAN. 26-29

ACE CABINET CORP.
of NEW BEDFORD, MASS.

Manufacturers of: Ice Cream Dispensing Cabinets, Upright Ice Cream Storage Cabinets, Home and Farm Freezers, Frozen Food Display Cabinets, Creamer Soda Fountains, Bobtails and Sandwich Units.

INTEREST IN LOCAL NCRSA GROUPS GROWS

Headquarters of the National Commercial Refrigerator Sales Association reports a growing interest on the part of commercial refrigerator distributors and dealers in several cities in organizing local groups affiliated with the association.

Exploratory meetings looking toward the formation of local groups were scheduled to be held during December in Philadelphia, Pittsburgh, Boston, and Providence. Arrangements have been made with members in these cities to act as chairmen of the groups, and invitations to the meetings have been sent to all commercial refrigerator firms in the areas.

ANNUAL BANQUET SET FOR JANUARY 27

Annual banquet of National Commercial Refrigerator Sales Association has been scheduled for the evening of January 27 in the Carter Hotel, Cleveland, during the All-Industry Refrigeration & Air Conditioning Exposition. Program details are still being worked out, but a number of

well-known industry speakers have been invited, and will discuss various phases of the industry of interest to manufacturers as well as distributors and dealers.

LOUDON REACH-IN UNITS NOW IN PRODUCTION

Production is now under way on Loudon reach-in cabinets ranging from 20 to 80 cu. ft., according to R. J. Loudon, of Loudon Sales, Inc., Minneapolis. Cabinets will be available with either glass or solid doors and with Dulux finish. The company reports it is also making ice cube makers and a new biological-medical cabinet in 4½ and 8 cu. ft. sizes.

COMMERCIAL DEALER IN NEW SHOWROOM

L & L Sales, Inc., Springfield, Ill., commercial refrigeration and air conditioning dealership, recently opened a new ultra-modern showroom at 106 S. Fourth St., featuring plate glass street-level show windows trimmed with stainless steel, and an elevated display floor. Merchandise is displayed against white side walls and

black tile flooring. Offices are located on a balcony at the rear.

Andrew E. Yuskanich is the firm's general manager; Frank A. Hicks and Johnnie A. Aimonette, sales engineers, and Preston Schroyer, service manager.

NEW BUFFALO FIRM

Frontier Refrigeration Co., Inc., has been incorporated in Buffalo, N. Y., by Paul B. Readett, Robert D. Fowler and Elmer L. Gayvert, with capitalization of \$40,000.

NAMED CARRIER DEALER FOR BROOKLYN AREA

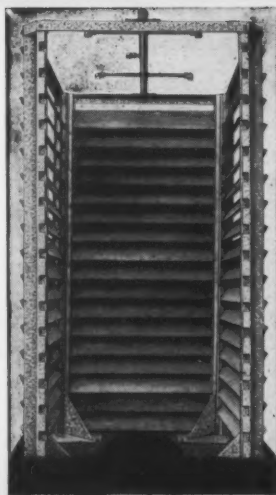
U. S. Refrigeration Co. has been appointed Carrier dealer for commercial refrigeration and air conditioning for the borough of Brooklyn.

Everett B. Patterson, who was associated with Carrier for many years, will be in charge of engineering for the dealership.

U. S. Refrigeration Co. occupies the entire two-story building at 1070 Atlantic Ave., Brooklyn, where showrooms, office, and service department are maintained.

BIG or small . . .

there's a Binks atmospheric cooling tower to fit your particular needs



A Binks Type "S" Cooling Tower is ideal where there is natural air movement. This improved model is widely used for cooling condenser circulating water from refrigeration, and air conditioning compressors . . . for cooling all types of water-jacketed engines . . . for cooling water and other liquids from manufacturing processes.

Standard Binks Type "S" Atmospheric Spray Cooling Towers are built in 30 sizes with capacities from 10 to 1200 G.P.M. This wide range of sizes enables you to buy the best in cooling towers for any size installation without the added expense of a custom built tower.

SEND NOW FOR BULLETIN 800

A data-packed booklet about Binks "S" Cooling towers, their specifications, capacities and much other helpful information.



THERE IS A BINKS COOLING TOWER FOR EVERY WATER COOLING JOB

BINKS TYPE "S"
30 STANDARD SIZES

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OFFICES IN ALL
IMPORTANT CITIES



CHECK WITH *Ranco* FIRST

	Specialists in Refrigeration
	More Ranco Controls in Use
	Dependability
	Less Stock to Carry
	Greater Customer Satisfaction
✓	More Profit for You



Ranco 0-1401 and 0-1402 pressure controls are for general applications requiring differentials of 6 lbs. or more. Single pole, snap-acting switch. Graduated visible scales calibrated for range and differential settings; Range screw changes cut-out and cut-in simultaneously; differential screw changes cut-out only.

YOU CAN SPECIALIZE IN PROFITS

Ranco controls, built by specialists in refrigeration, are used on more refrigeration equipment than any other make . . . are designed for dependable service . . . have "all-purpose" adaptability that reduces your stock inventory . . . and provide long-life, trouble-free performance that pleases your customers. All of which adds up to greater profit for you when you specialize in Ranco Refrigeration Controls.

Ask your Ranco wholesaler for information and assistance on your refrigeration control problems or write direct to Ranco Inc. for information on Ranco Controls.

Ranco Inc.



COLUMBUS 1, OHIO

World's Largest Manufacturers of REFRIGERATION

CONTROLS

THE SERVICE MAN'S DEPARTMENT

Here's how

Edited by
Warren W. Farr

Are You Overlooking These Prospect Sources?

Where do prospect names come from? If you follow the lead of dealers who've maintained active lists for many years, they're apt to come from almost any source. Here are only a few of the possibilities:

All inquiries received from advertising.

Recommendations that come in to you from friends, satisfied users, other business firms.

Names obtained from store traffic. All employees must be encouraged to turn in such names and addresses. This is a source of sales leads few dealers capitalize on as much as they might.

Names obtained through local surveys, or referred by the manufacturer as a result of replies to his national advertisements or direct inquiries.

Names turned in by your service department following repair or inspection calls.

Names obtained from local newspaper accounts of business changes, new office openings and other business activity. Assign a secretary to go over the local papers every day and mark likely items. Watch the marriage license and birth columns closely—they can be a gold mine of sales if you follow them up promptly and efficiently.

THIS information should be common knowledge, but there may be a few of your readers to whom it is not familiar, and therefore worthwhile.

We all know the end products of Freon and welding with acetylene. In a low temperature box where the Freon may collect, I hook up a vacuum cleaner (one of the tank-type, preferably) and suck the gas out of the box. Then when I weld I place the suction tube as near to my work as possible.

H. J. Huber
Bothell, Wash.

WANT TO EARN \$5?



You don't have to be a writer or a literary genius! Just jot down some of the shortcuts you've developed in your maintenance or installation work and send them to **HERE'S HOW EDITOR, REFRIGERATION INDUSTRY**. Your \$5 will be paid promptly when your maintenance tip is published in the magazine. Let's hear from you!

More Information, Please

If the return of a part is involved, then the manufacturer needs more information to complete the handling of that part when it is received at the factory.

In addition to the model and serial number of the part, the following information should be furnished:

Why is it being returned?

What was the date of installation?

What was the date of failure?

Has the replacement been made by you, or are you waiting for the parts before you can make it?

It is also a good idea to label the parts clearly, using either a standard material return label or the one supplied by the manufacturer, as is generally the case with condensing units and similar items.

Your parts wholesaler can help you many times in taking care of the matter for you; it's a part of his service on most of the equipment he sells. In case you are making the return yourself, however, be sure you give all the information you can. It will help you to get faster action.

A New Way To Speed Up Those Service Calls

Recently we've heard a good deal about mobile telephone communication equipment, and on one of our trips out of town had occasion to look over a system that one refrigeration servicing organization has in operation.

This sort of equipment is rather expensive right now—it cost the service operator whose setup we saw around \$50 a month—but he says it has worked out profitably for him. For one thing, it allows more calls to be made per working day, because if a call is cancelled after the service man starts out, he can be told about it right away and be spared "dead" mileage.

Also, if a service call comes in from a neighborhood in which the service man is working, he can be given the information and saved backtracking time. In sales work, the mobile communications system could give the operator who has it a considerable jump in getting to a "hot" prospect.

For the time being, at least, use of this type of equipment is somewhat limited, but most metropolitan communities have, or soon will have, facilities available for this type of service. Reception usually covers about a 30-mile radius, and the system operates just about like a regu-

HERE is a short cut to use in moving air conditioners or any similar heavy piece of equipment.

Take a few washing machine rollers and place under the object to be moved. You can then move any piece of equipment without leaving a scratch or mark.

I tried this on a tiled floor where the owner told me I would have to repair all damage done at my own expense—so I know it works!

A. A. Stewart
Sebastian, Tex.

lar phone, except that to reach a mobile unit it is necessary to call the operator and give the special number. There's a signal light on the "field set" that stays on until the receiver is picked up; this takes care of calls that come in while nobody is in the car.

Common Causes of Motor Failure

The life of an electric motor depends on the maintenance and care it receives from the serviceman and the user. If a motor is to operate properly, it must have reasonable care on the part of the user, and proper adjustment at required intervals by a serviceman who is qualified to determine and handle apparent causes of motor service problems.

Here are some of the more common causes of motor failure, and suggestions on how to cope with them:

1. Noisy Motor: This is generally caused by one of three things—worn bearings, excessive endplay, or loose pulley.

If worn bearings are the cause, the motor obviously should be removed for repair. In taking up endplay, be careful to see that motor is not too tight after endplay washers are added. A tight motor will "seize up" and cause excessive damage to motor windings. When tightening a loose pulley, check the belt line up and

make sure the set screw is tightened down on the motor key, or located in the center of the shaft flat, if a keyway is not used.

2. Motor Sparking; Brushes Worn: When brushes are worn and spark, burning the commutator surface, it is not always advisable to install new brushes on the job. When a commutator surface is burned it will act as an abrasive on the new brushes, greatly shortening their life. In this event a repeat service call will be necessary.

However, when it is indicated that the commutator surface is burned, the motor should be removed, and the commutator refaced by lathe operation before new brushes are installed.

THIS is the story of an old rig used in a new place, but perhaps some other service men will find it helpful.

Recently I had a compressor unit that would not quite handle the job. A corkscrew floor was poured on the floor above the basement where the unit was operating and the ambient air temperature was quite high due to lack of air circulation.

I emptied the receiver and condenser and welded a standard heat exchanger into the discharge line. I then placed a strainer ahead of the rig and ran the customer's water through counter-flow. In the summer he can use this, and in the winter turn it off.

When doing this, one should know the nature of the inside of the heat exchanger.

H. J. Huber
Bothell, Wash.

3. Rotor Unsoldered: Remove the motor for repair. When installing a replacement motor, check installation for possibility of low voltage or overload, as this condition may contribute to unsoldering of the rotor.

4. Grounded Rotor: Check this by removing the rotor from the motor and checking winding by applying a test lamp in series with the line to commutator and rotor shaft. The lamp will light if rotor is grounded. In this case the rotor should be removed for repair.

5. Shorted Rotor: A shorted rotor will stall, blowing fuses or opening the relay. To check for this condition, remove or insulate the brushes from the commutator surface and turn slowly with current applied to stator. If rotor grabs it will



General Care Hints. In the cleaning of refrigerated market fixtures, particular care must be paid to rubber door seals and welt gaskets. Grease and oil cause rubber to decay with the result that the door seals do not effectively keep the hot air out of the cabinets.

Mild soap and water will cut the grease and oil on the rubber. Drains, too, should be flushed out to prevent slime from accumulating, since it retains acid and moisture which corrode the pipes. To clean efficiently, pour a solution of sal soda and water through the drain and allow to stand for a few minutes to dissolve the junk. Flush out with hot water. ("Refrigerator Care Pays Premiums," Super Market Merchandising.)

indicate a shorted condition. Motor then should be removed for repair.

6. Open Stator: An open stator won't run if connected for 220 volt (in series) and won't carry load if connected for 110 volt, but one set of coils will be in the circuit. To check for this condition, open up the motor leads and check with test lamp for continuity. Lamp won't light when circuit is open.

7. Grounded Stator: Fuses will blow or relay will open, assuming that the installation is properly grounded. Check to make sure that wiring is grounded properly. If stator is partially grounded poor horsepower performance will result.

8. Shorted Stator: A shorted stator will blow fuses or open relay, due to excessive current passed through the stator windings. Use test equipment, if available; otherwise check for localized heat on the motor frame.

Editor, Here's How:

I have a Grunow refrigerator that is quite a problem to me. I thought perhaps you could help me out through your department.

This refrigerator is a sweet running box for about two months, has a nice short "on" cycle and a long "off" period. Then it starts to run longer and longer, with less and less ice all the time.

When pulled down, a gum deposit is formed around the check valve, sticking it closed.

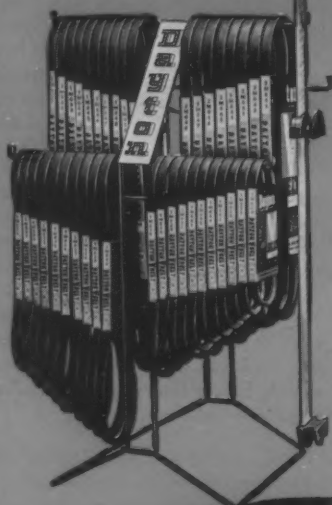
I have changed oil, Carrene, radiator and carrene meter, as well as stator and rotor, but my troubles still exist. Any help from you will certainly be appreciated.

George W. Pauli, Jr.
95 White St.
Danbury, Conn.

Editor's Note: Can any of our readers help Mr. Pauli with his problem? Send your suggestions directly to him if you wish—or send them to Here's How and we'll forward them.

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HANDY FHP CATALOG #44

Contains complete list of all types of small machinery, with the correct Dayton V-Belt replacement to use, as well as additional pertinent information.



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THE MARK OF TECHNICAL EXCELLENCE IN NATURAL AND SYNTHETIC RUBBER

JANUARY, 1948

97



Over the COUNTER

JIM: I had an interesting talk with your good customer, George Brown, today.

FRANK: *What was on his mind?*

JIM: George was a little bit worried about his competition and how they will go out after business when things begin to level off.

FRANK: *Is he finding business leveling off?*

JIM: Not so much, up to now, but he figures by next spring materials will be in good supply, with inventories up—and then special deals will begin to show up.

FRANK: *Do you think George is right?*

JIM: I really don't know whether his timing is right, but undoubtedly one of these days when conditions reach the position he has in mind, there will be many new angles developed to get business. It always has been that way in our free economy and it probably will be that way again.

When a man goes into business, he is privileged to operate that business according to his own policies and sales program. If he is a capable, experienced business man, he will carefully develop his program and policies to insure growth and stability.

He will understand that he must operate his business in competition with many other companies who are out to get the same dollar he is after. He will always keep in mind that he must buy merchandise, pay overhead, collect accounts and perform the many functions of business operation and management, the same as all other successful merchandisers.

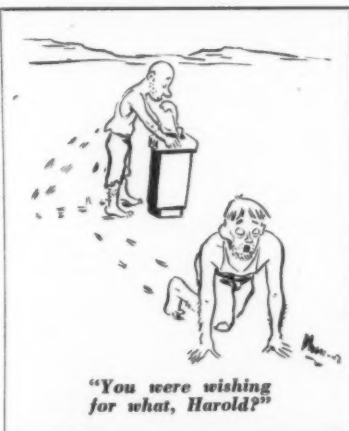
He will realize that, if he cuts prices on merchandise or makes special deals under one disguise or another, sooner or later his competitors will catch on and meet these policies if they choose to do so.

He must know that it is a simple

matter to lower prices and make special deals, but hard to get back in line once the lower prices have become known to the trade. He will know and realize that he must make a reasonable profit on every sale if his business is to grow and prosper.

When a business man gives serious consideration to all these basic conditions he quickly realizes that there is but one way to permanently succeed in business.

He must be alert and on the job, and deal fairly with his customers,



protecting their interests insofar as possible. He must give good service on orders, be helpful to his customers in developing business and help the customer select the equipment best suited for the job.

He must extend credit where justified, handle replacements on defective merchandise, handle promptly merchandise in need of repair, and keep his customers advised regarding new merchandise, price changes and other information needed to do business or to enable his customers to decide what, when and how to buy.

There are many so-called business people, however, who consider

themselves smarter than their competitors. Such people like to develop trick sales or plans, or like to set up special arrangements under cover to provide price-cutting, under some disguise. This kind of activity (they think) will increase their business—and it usually does, but always at a serious sacrifice of profit.

If they'd only stop to figure out the large increase in sale volume necessary at even a 10% price cut, to bring home the same profit available at regular selling prices, they would think long and well before making such a move.

Price cutting usually places them on a short, straight road to financial failure. If the competitors meet the chiseler, which they frequently do, all suffer, none make the necessary or justified profit, and in the long run nobody increases his business enough to even match his ordinary profits under regular conditions.

It is, of course, human nature for every one to try to buy merchandise and equipment at the low price. On the other hand, if they stop to consider that somewhere along the line where prices are being driven down, they will be confronted with inferior merchandise, poor service or short changed in one way or another, they will eventually reach the conclusion that while they want merchandise as cheap in price as possible, they must permit sufficient profit to each handler along the lines of commerce so that an adequate profit may be realized at each step and by each handler involved.

There is no place in sound permanent business for the chiseler or the profiteer. No one wishes to be victimized by the vultures who take advantage of short supplies by overcharging their potential customers. Like everything else, in a sound, healthy economy, a fair profit is essential and necessary for a continuing healthy business.

The answer is experience in business. A sound, experienced business man keeps careful records of

**BUY FROM YOUR
REFRIGERATION WHOLESALER**

his profits and costs. He realizes he must make a profit to remain in business. He knows he must make a fair legitimate profit on each transaction to secure an overall profit at the end of each year.

It all adds up to this: good, healthy, sound business holds no place in its activities for the chiseler, the profiteer, the price-cutter or the fast operator.

If one of these species turns up in your territory don't lose your head or your good judgment by trying to match or exceed his foolish offerings. Keep both your head and your sound business policies.

Seriously analyze your own policies to determine the points of strength in your business that will enable you to continue along as usual.

Above all, don't allow yourself to become a victim of your own hastily made decision to meet the other fellow.

Try to find ways and means to continue along as usual without change. Remember you can usually better afford to drop a little volume at regular profit than attempt to equal or exceed your present profit by increased volume through price-cutting.

Don't forget: your operating costs and overhead stay up when you lower your prices, thus sacrificing and lowering your profits. There is no prompt, happy remedy to such a sick business condition.

But always bear in mind you are entitled to stay in business, and usually you'll succeed in doing so, if you strengthen your position through more efficient operations, better service, fair and considerate treatment and a sincerity that leaves no question in your customer's mind that you are giving him a good deal, with full intentions of staying on the job to help service and protect his investment long after the chiseler is gone and forgotten.

This policy may bring you the unpleasant situation of seeing some good business go to the chiseler, but if you use your head and your best judgment you can win, make a satisfactory profit doing it and add the satisfaction of sooner or later

seeing the chiseler go by the way-side, as all chiselers eventually do.

Foolish, unfair competition is a tough situation to be confronted with, but often creates both a reason and an urge for you to strengthen your own policies and practices which in the long run result in greater business success for your business in the future.

FRANK: What did George have to say after you told him these things?

JIM: *George realized that what I had said was true; conditions of this*

kind have happened over and over again in the past and may well happen again.

FRANK: Did you get into any other problems with George?

JIM: *I sure did. That was only the start, but I won't be able to tell you the rest of the story today. I'll have to wait 'til later.*

FRANK: I'll be waiting to hear it; we may have other customers who will be thinking about these same problems, and we have a responsibility to get this story across to them, too.



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JANUARY, 1948

THE PRACTICAL Refrigeration Engineering MANUAL ... by Harold Smith

XXI. Night Clubs and Cafes

PART II

AS NIGHT clubs are frequently located in the country, sometimes beyond the water supply lines from the city, the use of air-cooled condensing units is usually desirable, particularly with smaller fractional horsepower units.

Because of this condition, an opportunity to sell and install individual condensing units exists, and presents a logical sales approach when working on this type of business.

Another strong point in discussing the use of individual air-cooled units is the protection afforded when breakdowns occur, as food can be transferred from a unit temporarily out of service to one in operation until such time as the repairs are made. The use of individual units also simplifies the control of temperatures, as each unit can be set for its particular temperature requirements.

INDIVIDUAL UNITS OFFER MORE PROTECTION

Make every effort to sell these jobs when located in the country on an individual unit basis. A larger sale is produced which, while costing somewhat more for equipment, provides the customer with greater protection, less service problems, more uniform temperatures and often over-all lower operating cost.

When air conditioning is to be installed, water-cooled condensing units usually must be used. Before the sale and installation, a careful check of water availability must be made.

If city water is not available, dependable wells usually must supply the water.

Be sure to satisfy yourself that a sufficient volume of water can be depended upon to handle the job, bearing in mind that the hot, dry summer season, when air conditioning needs are most important, is also the time of year when water supplies in wells reach their lowest level.

The only safe well is one with a plentiful supply of water under the most serious dry weather conditions.

COOLING TOWERS GUARD AGAINST WATER SHORTAGE

The installation of evaporative condensers, or cooling towers, provides great protection against a shortage of water under dry conditions, using the water in the system over and over again, and using additional water only to replace evaporation of a relatively small part of the water in the system.

Again, this increases the sales price and the customer's investment, but on the other hand offers insurance against the loss of use of the system in dry weather, when it is needed the most to provide comfort for the patrons.

Some "deluxe" night clubs can be sold stand-by condensing units, powered by gasoline engines, to protect them from stoppages due to power line failures which occasionally occur during the summer months, particularly in the country.

The use of gasoline engine driven a.c. current generators offers another solution to this problem.

When stand-by condensing units are installed, refrigerant lines are permanently installed through hand shut-off valves so

TYPHOON UNITS HELP KEEP U. N. COMFY

Expanded air conditioning of the United Nations buildings at Lake Success has been achieved by the addition of 23 Typhoon console type units, supplied by the Typhoon Air Conditioning Co., Brooklyn, N. Y. Installation, totalling 140 tons of refrigeration capacity was made by contractor Harold J. Ryan, Inc.

The Typhoon units are being utilized in connection with a central system which was already in existence on

the United Nations premises. Chilled water was dumped into the coils to adapt these units to existing facilities. Because of the large area and varied loads involved, the space was broken down into zones and units were placed so as to serve each zone efficiently.

This type of combination installation is viewed as having wide application to department stores, hotels, theaters and similar structures where the air conditioning load varies throughout the building.

the refrigerant flow can be quickly and easily routed through the stand-by units in an emergency.

With the use of a.c. current generators, electric service lines are connected to the regular power lines controlled through a switch, thus enabling the operator to start the generator in operation to provide current on very short notice.

All of the above suggested equipment provides real insurance for the night club operator who may be located away from the fast service facilities found in the cities.

It is easily possible that the financial losses from the loss of one night's business could amount to more than the cost of this stand-by equipment. Don't overlook these opportunities when working on this type business.

INSPECTION SERVICE PAYS

Another service and source of income to refrigeration operators whose customers, particularly cafes and night clubs, are located out from town is a contract for periodic inspections on all their refrigeration equipment, to be made at monthly or quarterly intervals.

With such regular inspections a thorough check can be made of all the equipment, which quite frequently uncovers developing service requirements before the actual trouble starts.

Such inspections provide a nice revenue to the refrigeration operator and often save the owner of the equipment many times the cost in preventing losses from food spoilage and major service expense.

Usually a clear cut outline of the advantages of regular inspection is all that is necessary to secure such a contract from the equipment owner.

Inspections of this kind, besides being a source of extra

revenue to the refrigeration operator, also give him an opportunity to contact the owner at regular periods, often resulting in additional business through sales of more equipment.

A well operated inspection service also further serves to level out the labor distribution for the service men and often goes a long way towards paying the labor overhead of the refrigeration operator.

A successful inspection service must be thorough, and set up along definite lines of practice.

CLEANLINESS IS IMPORTANT

It is always important to make certain that the inspector cleans the equipment carefully during each inspection. A clean piece of equipment, free from dirt, oil and grease, impresses not only the owner of the equipment, but others who may have occasion to see it.

Frequently these other people may be prospective customers who may place business with you because of a good impression created by the new, clean appearance of someone's equipment you have installed, which they in turn to have an opportunity to look at while in operation.

No finer recommendation is possible than a clean, new-looking piece of refrigeration equipment in operation.

FIGURE PROFIT MARGIN

When plans are made for setting up an inspection service, be sure to set up a cost for this service sufficient to cover actual labor and traveling time, with a safety margin for unusual requirements and a fair percentage of profit.

Unless the inspection service can be made to show an actual profit, much of the advantage and attractiveness of this activity is lost.

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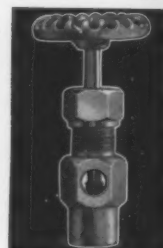
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Angle
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Compact—Machined from bar stock steel—Full size ports—Completely rust-proofed—Highest grade graphited composition packing—All popular sizes.



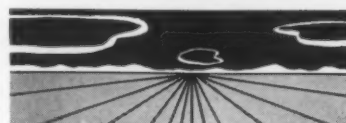
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REVERE DRYSEAL COPPER REFRIGERATION TUBE is made of deoxidized copper (99.9+ % pure) and is kept oxide-free by special processing methods. It is suitable for use with the following refrigerants: sulfur dioxide, methyl chloride, Freon 11, Freon 12, Freon 22, Freon 114. It is not generally recommended for use with ammonia. It is dead soft, easy to bend and will not split when flared at the ends. May be used with solder- or compression-type fittings.

REVERE 3S-O ALUMINUM REFRIGERATION TUBE contains 98.8% aluminum and 1.2% manganese. It is suitable for use with the following refrigerants: sulfur dioxide, ammonia with up to 5% water, Freon 12, Freon 114 and methyl formate. Not recommended for use with Freon 11, Freon 21, Freon 113 and methyl chloride. It is equal to Revere Dryseal Copper Tube in ease of bending and flaring operations. Aluminum fittings are preferred, although galvanized steel will assure good service. In the case of lines using Freon 12, it is permissible to use copper or brass fittings if the external surfaces of the fitting and adjacent tube are covered with a good primer or waterproof grease.

OTHER DATA

Surfaces	Exterior and interior surfaces are clean, smooth and free from slivers, seams, grooves, cracks and other injurious defects.		
Drytess	Each length is carefully dehydrated and immediately sealed at both ends.		
Sizes	From 1/8" to 3/4" O.D., with .035" wall, and standard in 50-foot coils.		
	Revere Dryseal Copper	Revere 3S-O Aluminum	
Tensile Strength, psi	32,000	16,000	
Elongation, % in 2 in.	45	30	
Density, lbs. per cu. in.	0.323	0.099	

Conditions of exposure and other factors are often important in determining the proper material to be used. Revere's Technical Advisory Service is available to aid in this selection.

Revere Dryseal Copper Refrigeration Tube and Revere 3S-O Aluminum Refrigeration Tube are available from leading distributors throughout the country.

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ABOUT *People*

Henry M. Brundage, former commissioner of markets for New York City, and assistant vice president of Schenley Distillers, has been named vice president in charge of sales of Weber Showcase & Fixture Co., Inc. In this capacity he



will be in direct charge of policies affecting sales of all Weber standard equipment in the domestic as well as the export market. At one time in his long and varied career as a business executive, Mr. Brundage headed a firm of his own which was engaged in the distribution of commercial and domestic refrigerators.

G. T. Etheridge has been appointed sales manager of the wholesale commercial and parts department, Kelvinator div., Nash - Kelvinator Corp. Mr. Etheridge, who has been in the commercial refrigeration sales field since 1933, has been assistant manager of Kelvinator's contract condensing unit department since 1944.



C. T. Redding has been appointed Philadelphia district sales manager for Deepfreeze Div. Motor Products Corp. He has most recently been Chicago district sales manager.

W. C. Newberg has been appointed president of Airtemp Div., Chrysler Corp., replacing D. W. Russell who had served in this capacity for the past eight years. Mr. Newberg has been with Chrysler for 14 years and during the war was chief engineer of the Dodge-Chicago plant,



where under his direction the production of engines for B-29 bombers was carried out. From the end of the war until his new appointment he has been a member of the staff of C. L. Jacobson, who is in charge of subsidiary activities. In this capacity he had spent practically his entire time working closely with the Airtemp organization.

Willis A. Siegfried has been elected vice president and general manager of Superior Valve & Fittings Co. In that capacity he will be first assistant to the president, and will assume the president's duties in the latter's absence. Mr. Siegfried joined the company as assistant to the sales manager in the summer of 1944. In April of 1945 he was made sales manager, and became vice president in charge of sales a year later.



Daniel D. Wile, formerly manager of engineering laboratories for Carrier Corp., has joined the staff of Refrigeration Engineering, Inc., Los Angeles manufacturer of cooling equipment, as chief engineer. In addition to the engineering and further development of this firm's existing line of refrigeration coils and evaporative condensers, Mr. Wile's activities will include the develop-



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Cleveland Public Auditorium January 26-29, 1948

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AMERICAN REFRIGERATOR & MACHINE, INC.

2700 University Ave. N.E. Minneapolis, Minn.

ment of a line of air conditioning equipment which the "Recold" organization intends to market.

D. C. McKinley has been placed in charge of sales of General Electric air conditioning and refrigeration equipment in the New York district. Prior to his present assignment, Mr. McKinley served the G-E air conditioning department as western manager in charge of sales to manufacturers of refrigeration equipment. Two years after joining G.-E. in 1930, Mr. McKinley became one of the original group who formed the air conditioning department.



Thurlo F. Johnson, formerly central regional sales manager, has been named to the newly-created position of director of national service for the Norge division of Borg-Warner Corp. In announcing Mr. Johnson's appointment, vice president M. G.



O'Harra said the entire service department is being expanded and Norge is giving the same emphasis to service that it is to each of its manufacturing operations.

Before becoming central regional sales manager, Mr. Johnson was Norge's national service manager. **J. H. Webster**, who has been a district representative, is taking over duties as central regional sales manager for the time being.

Several personnel shifts recently have been announced in both the executive and field staffs of Sturtevant Div., Westinghouse Electric Corp. At the company's headquarters, **Kellen Wiles** has been appointed executive assistant to general manager G. C. Derry, while **Roger H. Martin** has been named manager of the division's industrial department. In the field,

E. M. Powell has been appointed middle Atlantic district manager with offices in Philadelphia, and **Alexander Martin** has been named manager of the central district with offices in Pittsburgh.

Arthur A. Beck has been appointed advertising and public relations manager of Vilter Mfg. Co. Mr. Beck formerly was director of advertising for a Wisconsin daily newspaper.

K. K. Cooper has been appointed assistant designing engineer of General Electric's commercial refrigeration machine division, and **J. B. Settle** has been made section engineer in charge of sealed type compressors and condensing units. Both men will be located at the Ft. Wayne plant of the G-E's air conditioning department.

M. C. (Craig) Miller, who entered the household appliance field more than 20 years ago, has been

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**WRITE FOR A COPY TODAY
...ASK FOR BULLETIN 15**




named manager of sales promotion and sales training for Norge Div., Borg-Warner Corp. Mr. Miller, who joined Norge following his recent discharge from the Navy, replaces Ellis L. Redden, who has resigned.

M. Q. Meade, assistant manager of Super-Cold Southwest Co. of Dallas, Houston, and Oklahoma City, has been promoted to manager and vice

president of Super-Cold Midwest Co., Chicago, Ill., replacing P. E. Joy, who has resigned.

John H. Thomas has been named to succeed George E. Gregory as vice president and purchasing director of Owens-Corning Fiberglas Corp., and **Ben S. Wright** has become Owens-Corning's general sales manager. Mr. Gregory has resigned from Owens-

Corning to become president of Morton-Gregory Co., Inc., a new organization being formed to manufacture and sell new industrial and consumer products calling for large scale use of Fiberglas yarns. Mr. Thomas has been Owens-Corning's vice president in charge of sales since 1946. Mr. Wright has served as manager of the Fiberglas yarns division and manager of the Fiberglas branch sales office in Cleveland.



**SEE
OUR DISPLAY
at the
CONVENTION
BOOTH 1110**

The **LA CROSSE COOLER CO.**
LA CROSSE WISCONSIN

See AIRSERCO Products in action at the All-Industry Exposition, Booth 424.

AIRSERCO
*Short cuts for
the service engineer*



- Portable Evacuators
- Hermetic Fans
- Starting Relays
- Sling Psychrometers
- Hermetic Oil
- Weighing Units
- Test Cords
- Calculators



**STEEL TANK
HOLDERS**

Facilitate the SAFE transfer of refrigerants in the shop and on the job. Lightweight, free-standing, portable, and color coded.



THERMOSTATIC CONTROL TESTER

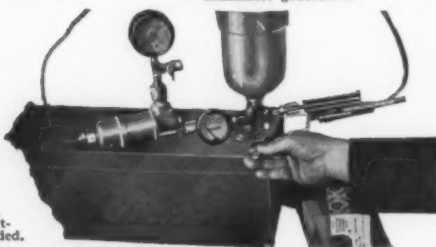
Model 3100—A precision pocket-size Tester that detects and analyzes thermostat defects without removing the control from the cabinet. Saves blind tampering with thermo controls.

START-O-METIC ANALYZER

A "must" service instrument that starts up defective compressor units (both hermetic and open-type) without tearing apart the motor assemblies.

VALVE ANALYZER

A time-saver that tests and sets the superheat requirements for all types of Thermostatic Expansion Valves—eliminates guesswork.



AIRSERCO MANUFACTURING CO., INC.
435 MELWOOD ST., PITTSBURGH 13, PA.

M. E. Comstock has been appointed manager of the Boston branch office of Wagner Electric Corp.'s electrical division. Mr. Comstock has been with the company since 1919, and prior to his newest appointment had held the position of sales engineer



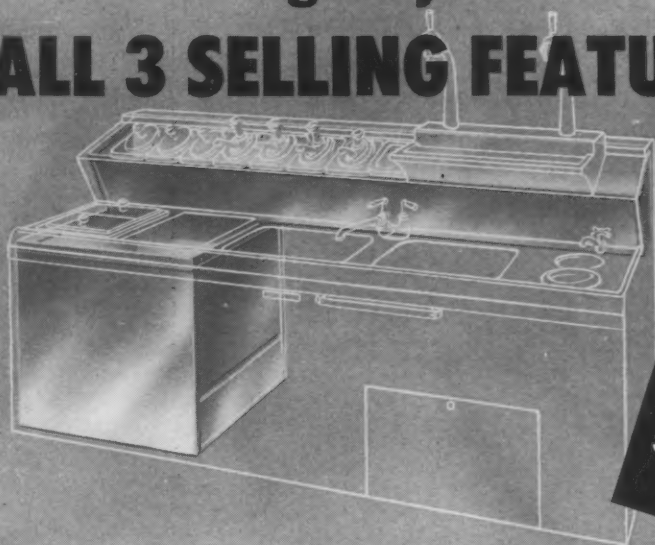
for 28 years. In other changes in its field force, Wagner has announced that its Tulsa sub-office is being transferred from the Houston territory to the Kansas City territory. **H. M. Furtney** will be in charge of the Tulsa sub-office. **A. W. Maas**, formerly at Tulsa, has been transferred to the Philadelphia branch office. **Harry Anderson** has joined the sales force of the company's Minneapolis branch office.

Hugo C. Smith has been appointed sales representative in Ohio, West Virginia, and eastern Michigan for Kramer Trenton Co. He will make his headquarters in Cleveland.

Howard J. Scaife has been named manager of market development and **William F. Ogden** manager of product planning for Hotpoint, Inc. Mr. Ogden formerly was assistant chief engineer, while Mr. Scaife has served most recently as western regional sales manager.

H. R. Russell has been appointed general sales manager of Tinnerman Products, Inc., Cleveland manufacturer of fastening devices.

How *ACE* soda fountains give you **ALL 3 SELLING FEATURES**



- 1. LIFETIME LINERS**
plus
2. FAST COOLING
plus
3. UNIFORM COOLING

Maybe you've had unhappy experiences with soda fountain liners in the past.

If so, you'll want to know just what the new ACE Soda Fountain has to offer.

Then look at its liners. They're built to last for the life of the fountain! They can *never* rust. And they give faster cooling . . . *uniform* cooling for syrups and other fountain supplies.

Why? Because liners in the ACE Soda Fountains are made of Monel.*

This sturdy Nickel Alloy is rustproof through and through. It has no coating or surface protection to wear off. It's stronger

and tougher than structural steel, highly resistant to wear and corrosion.

You can see why a metal like this is a natural choice for the ACE SODA FOUNTAIN MFG. CO., INC. and other manufacturers who want to build years of trouble-free, economical service into their equipment.

And you should know all about the additional features that *are* built into ACE Soda Fountains. Write today to ACE SODA FOUNTAIN MFG. CO., INC., 1539 Boone Avenue, New York 60, N Y. They'll send you full details on their line of long-lasting Monel-equipped fountains.

*Reg. U. S. Pat. Off.



THE INTERNATIONAL NICKEL COMPANY, INC.
67 Wall Street, New York 5, N. Y.

MONEL*



A new refrigerator van designed and built by Fruehauf Trailer Co. for store-door delivery of ice cream and frosted foods, enables the driver to reach any part of the load while standing at street level. The low-slung, streamlined trailer has three insulated compartments and one non-insulated, with doors on each side of the vehicle. Refrigeration is provided by hold-over plates.

MCCRAY FLIES CASES TO COAST CUSTOMER

In the largest shipment of refrigeration equipment ever handled by TWA, two McCray 10-foot refrigerated display cases were flown from Fort Wayne, Ind., to San Francisco to make a delivery date for George Brady's Super Market, San Mateo, Calif. The equipment had been sold by McCray's San Francisco dealer, Scatena York Co.

Complete cargo bound for the Brady job included three 10-foot cases, but only two could be loaded in one plane to come within the ship's cargo limits. The third case went out the following morning on the regular flight.

Careful balance had to be determined by TWA engineers to assure safe flying in the cargo plane, and all other freight had to be unloaded and re-distributed to accommodate the unusually large "packages."

On hand to watch the loading of the equipment were McCray men H. L. Delp, traffic manager; W. L. Herald, advertising manager, and L. G. Bowers, staff photographer.

15-CENT DIVIDEND DECLARED BY BRUNNER

Directors of Brunner Mfg. Co., Utica, N. Y., recently declared a regular quarterly dividend of $1\frac{1}{8}\%$ on the $4\frac{1}{2}\%$ preferred stock of the company, and a dividend of 15 cents a share on the common stock.

SEEGER REPORTS PROFIT

Seeger Refrigerator Co., St. Paul, recently reported a net income of \$1,453,005 for the year ended August 31, equal to \$1.32 per share. This compares with a loss of \$87,790 for the previous year. Sales for the year totaled \$34,891,706, against \$15,160,453 for the prior period.

ADMIRAL PAYS DIVIDEND

A 25-cent dividend, payable to stockholders of record at the close of business November 28, 1947, has been declared by Admiral Corp. This dividend was payable December 15, and brings the total dividend paid during the year 1947 to $37\frac{1}{2}$ cents.

**Gives you
DUST-FREE DRYING**


For best results on any job...

USE PA-100,

**the Preferred Refrigeration
Grade SILICA GEL**

Give your customers the benefits of Davison PA-100 Refrigeration Grade Silica Gel—the gel that eliminates your moisture problems. Davison PA-100 meets your every requirement—maximum capacity, fast acting, removal of acids and corrosive materials, freedom from caking, freedom from channeling, safe to use, no attack on metals or alloys—and offers the PLUS advantage of freedom from dusting.

Your jobber stocks Davison PA-100 Refrigeration Grade Silica Gel in factory-charged dehydrators—or in bulk in the can with the blue label.

THE DAVISON CHEMICAL CORPORATION
Progress through Chemistry  **BALTIMORE-3, MD.**
PIONEERS AND DEVELOPERS OF SILICA GEL

Canadian exclusive sales agents for DAVISON SILICA GEL:

CANADIAN INDUSTRIES LIMITED, Sales Division, Chemical Group

HERE'S WHO'S WHO

(Answers to the All-Industry Show cartoon quiz on page 66.)

1. ROGER KIPP, Alco Valve
2. G. M. KINGSLAND, Minneapolis-Honeywell
3. E. M. FLANNERY, Bush
4. W. J. AULSEBROOK, Servel
5. GEORGE ALLEN, Kerotest
6. H. C. MORRISON, Curtis
7. J. W. RUBENSON, Day & Night
8. L. C. PELLEGRINI, Marlo Coil
9. C. H. BENSON, Imperial Brass
10. WILLIS STAFFORD, Chicago Seal
11. H. S. McCLOUD, REWA
12. C. L. BENSEN, McQuay
13. PAUL DOMKE, Mueller Brass
14. TOM FARRELL, Kelvinator
15. ED KELLIE, American Injector
16. JIM STRACHAN, Weatherhead
17. EARL VALLEE, Automatic Products
18. JIM HOOD, Ansul Chemical
19. R. J. THOMPSON, Kinetic Chemicals
20. DICK DAWSON, Henry Valve
21. JOE KRALL, Tyler Fixture
22. JACK FORBES, Superior Valve
23. ED GRAFF, Ranco
24. HARRY HEDRICK, Mills Industries
25. R. H. ISRAEL, Virginia Smelting
26. HERMAN SPOEHRER, Sporian Valve
27. R. K. HANSON, REMA
28. CHARLES MULLER, Rotary Seal
29. LEE LOVE, Ebco
30. C. M. CORDLEY, Cordley & Hayes
31. R. H. LUSCOMBE, Penn Switch
32. ED THIELE, Kold-Hold
33. MEL KNIGHT, Peerless
34. H. W. JARROW, Jarrow Products
35. LUD EMDE, Temprite Products
36. BILL HIGHAM, Universal Cooler
37. TED COGGIN, Detroit Lubricator
38. H. A. MALCOM, Chrysler Airtemp
39. RUSS SEARS, Lynch
40. ROSS RATHBUN, Baker
41. JACK MILLER, Lehigh
42. JOHN MARSHALL, Wolverine
43. FRANK SMITH, Tecumseh
44. DUKE HILDRETH, Westinghouse

IT'S SHOW TIME!

what

where

when

who

why

The Fifth All-Industry Refrigeration and Air-Conditioning Exposition.

Public Auditorium, Cleveland, Ohio.

January 26 to January 29, inclusive.

Look for us . . . Booths Nos. 204-206.

To chew the fat, air a gripe or two, pat us on the back, or watch Pete Boyle, famed cartoonist, in action. Come one, come all! We'll be delighted to see you.

Virginia Smelting Company, West Norfolk, Va.
Established 1898 - Distributors for Kinetic's "Froon" Refrigerants



VIRGINIA
Refrigerants

West Norfolk • New York
Boston • Detroit



"EXTRA DRY ESOTOO"

"V-METH-L"

Buy
From Your
Wholesaler

GET THE JOB OPERATING *FASTER!*



NEW

PREMIER KIT

**RECONDITIONS . . . Recessed or
Flush Valve Ports in MINUTES!**

Now you can easily grind, finish
and test recessed or flush valve
seats (either piston or flapper jobs)
. . . get 'em back into action *faster*
. . . and make satisfied customers!
No more tiresome hand-lapping.

The Premier
SELF ALIGNING VALVE GRINDING KIT

**COMPLETE SET PACKED
IN HANDY CASE**

Contains self-aligning tool holder . . .
6 abrasive wheels for roughing . . . 6 cast
iron lapping disks . . . two 3" cast iron
lapping blocks . . . 1 wheel dresser and 1
valve tester. Complete instructions en-
closed for handling 1/2" to 1 1/4" valve seats.

See it at your jobber!

THE PREMIER CO.
891 PARK AVENUE
BALTIMORE 1, MARYLAND

OPPORTUNITIES

Classified Advertising Section

Rates: for "Positions Wanted" \$3.50
minimum, limit 25 words. For all other
classifications, \$3.50 minimum for 25
words, each additional word 10c; bold-

face type or all capitals, \$6.00 minimum
for 25 words, each additional word 15c;
limit 50 words. Box addresses count as
five words.

POSITION WANTED

Service Manager, now employed in Refrig-
eration and Air Conditioning desires posi-
tion with aggressive firm in south. Will
give particulars in reply. Box 1148.

TRAINING COURSES

THE DETROIT AIR CONDITIONING
INSTITUTE of 4125 Grand River Avenue,
Detroit 8, Michigan, offers a concentrated
course covering thermodynamics, refrigera-
tion, heating and air conditioning. Classes
start February 3 and March 30. GI ap-
proved. Write to George H. Clark, director.

FOR SALE

ICE MAKING AND COLD STORAGE EQUIPMENT

Complete Ice Plants, Junior Bulk Ice
Makers, Ice Plant Supplies and Replace-
ment Equipment, Pre-Fabricated Freezers
and Holding Rooms. Industrial and Com-
mercial Systems Designed and Manufac-
tured. Prompt Delivery. Direct Inquiries
to:

(Refrigeration Engineering Corp.)
RECO PRODUCTS DIVISION, 2024 Mar-
ket St., Philadelphia 3, Pa.

Quality bobtail fountains; reach-ins, walk-
in boxes—wood, metal; dough retarders;
double duty cases—stainless steel, porce-
lain; dairy, florist, bakery cases; ice cream
hardening cabinets; thermopane frozen
food cases; milk, sandwich coolers; stain-
less steel back bars; with machines. Equip-
ment made to special order. Frigitemp
Corp., 931 Bergen St., Brooklyn 16, N. Y.
MA 2-9093.

FOR SALE—Air-cooled and Water-cooled,
remanned condensing units, 1/4 up to
2 H.P. Write for particulars, Edison Cool-
ing Corp., 310 East 149 St., Bronx 51, N. Y.

FOR SALE HILL COLD BOX

Three compartment, 40", outside 155" long,
60" wide, 84" high, 8" cork insulation
galvanized iron lined. One door on left
end and three doors in front, complete with
Lipman Freon Compressor F-12 and water
coil, compressor is in need of minor repairs,
connected to 5HP, 1740, 3 phase enclosed
Louis Allis Motor. Contact Decker-Merck
& Co., Inc., Rahway, New Jersey, Rahway
7-1200.

**AVAILABLE—TEST MODELS OF OUR
STARTING AND TESTING DEVICES
FOR STUCK SEALED UNITS. OFFERED
TO COMPETENT SERVICEMEN AT
COST FOR ADDITIONAL FIELD SER-
VICE REPORTS.**

REFRIGERATION LABORATORIES
1518 Cumberland Ave.
Waco, Texas

We have the following portable electric
generating plants: These are real buys.
3 KW, 110 V A. C. 26.1 amperes,
60 cycle, single phase, 1800
RPM—perfect condition . . . \$225.00

5 KW, 110 V A. C. .07 P. F. 7.2
KVA, 62 amperes, single phase
1800 RPM—perfect condition. . . \$450.00
6.3 KVA New Wisconsin powered
master generator set, 120/240 V,
single phase, 60 cycle. . . \$600.00
15 KW International powered unit
120/208, 4 wire, 60 cycle, 3
phase, new. . . \$1200.00
25 KW Cummins powered unit,
220 V, 3 phase, 60 cycle, like
new. . . \$2450.00
60 KW Cummins Diesel powered
unit, Delco generator, 1200
RPM, 450 V, 3 phase, 60 cycle,
complete with accessories. . . \$5500.00

**MANY OTHER UNITS, IN STOCK,
ARE AVAILABLE!**
PORTER ELECTRIC COMPANY
330 South Sixth Street
Minneapolis 15, Minnesota
Lincoln 7531

**ELECTRICAL EQUIPMENT
COAST TO COAST**

REPAIR SERVICE

SEALED CROSLLEY TERMINALS. In-
stalled from the outside in a few min-
utes without opening the compressor.
Corrects leaky terminals on all Cros-
ley "F-12" units. Set of three \$5.25
(Part No. 1020). Installation tool 20c.
Immediate delivery. Money-back guar-
antee. **SEALED UNIT PARTS CO.,**
3097 Third Ave., New York 56, N. Y.

Rebuilding and Exchange Service on open
style compressors—all sizes, Condensers,
Float Valves, Water Valves, Blower, Gravity
and Ice Maker Coils. Ninety day Uncondi-
tional Guarantee. Write us on your com-
pany letterhead for our illustrated, priced
catalog. Refrigeration Maintenance Corp.,
321 E. Grand Ave., Chicago, Ill.

Refrigeration Controls and Valves Re-
paired. Complete service for all makes and
types. Also Stoker and Oil-Burner controls
repaired. All work guaranteed. Write for
prices or just mail in controls. Acme
Control Service, 5521 Lawrence Avenue,
Chicago 30, Ill.

Stop Terminal Leaks in Crosley Sealed
Units by using the Jiffy Terminal. Easy to
install, no special tools needed, can be
installed in a few minutes without remov-
ing unit from cabinet. Set of three ter-
minals \$5.00, or see your jobber. Detroit
Sealed-In Parts Co., 19191 Rogge, Detroit
12, Michigan.

NEW OHIO FIRM

Tri-State Refrigeration Co. has
been incorporated recently at 4879
Winton Place, Cincinnati, incorpora-
tors being Floyd Anderson, Louise
Baurer, and W. Charles Sulau, at-
torney.

THE REFRIGERATION INDUSTRY

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BOOTH 914-A ALL INDUSTRY SHOW



FOR PERFECT REFRIGERATION ON EVERY JOB



"Recold" Tiny-Mite
Suctionair—the perfect
coil for small installa-
tions.

"Recold" products set the pace for positive re-
frigeration protection on every installation.

Unit coolers for standard or low temperature
applications. Evaporative condensers and floor
units that meet exacting specifications. "Re-
cold" products have a dependable record of
performance.



"Recold" Supreme, especially adapt-
able for storage of meats and flowers.



"Recold" Water Defrost Humid Air
Evaporators. For all low temperature
applications.



**A Complete Line of Unit Coolers, Evapo-
rative Condensers and Floor Units.**

More than fifteen years of successful man-
ufacturing experience are behind every
"Recold" product.

See the Full Line — Booth 914A

REFRIGERATION ENGINEERING, INC.

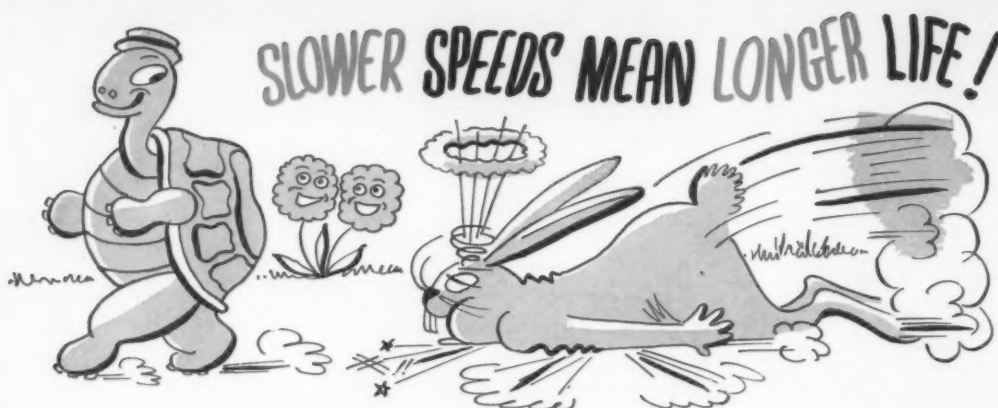
7250 East Slauson, Los Angeles 22, Calif.



BRUNNER
SINCE 1906

REFRIGERATION helps you serve better

Memo to Shrewd Business Men



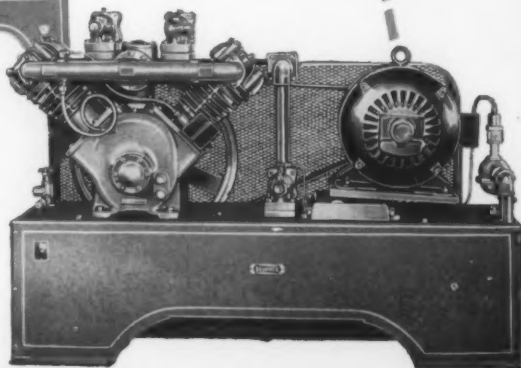
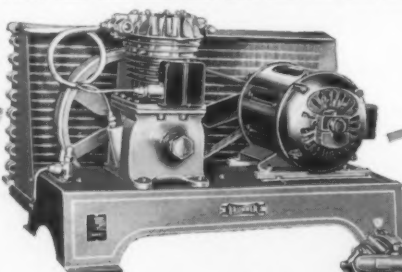
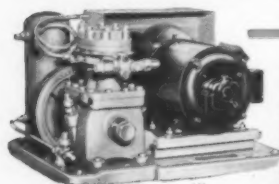
No fairy tale this: you use refrigeration units in your business only because they are essential to a profitable operation. Pump speeds, condensor tubes, suction areas, and other technical contributions to "slower speeds mean longer life" we'll leave to Brunner's factory representative to explain in detail.

Here is today's version: refrigeration units are too important for hurried selection. Slow up, take time to *compare* design and construc-

tion details. *Check* the experience of other users. Longer life comes with profitable, worry-free installations; prompt deliveries; long-lasting customer satisfaction. *Write us.* Spend a few minutes with Brunner's representative and know why plant capacities have been greatly increased.

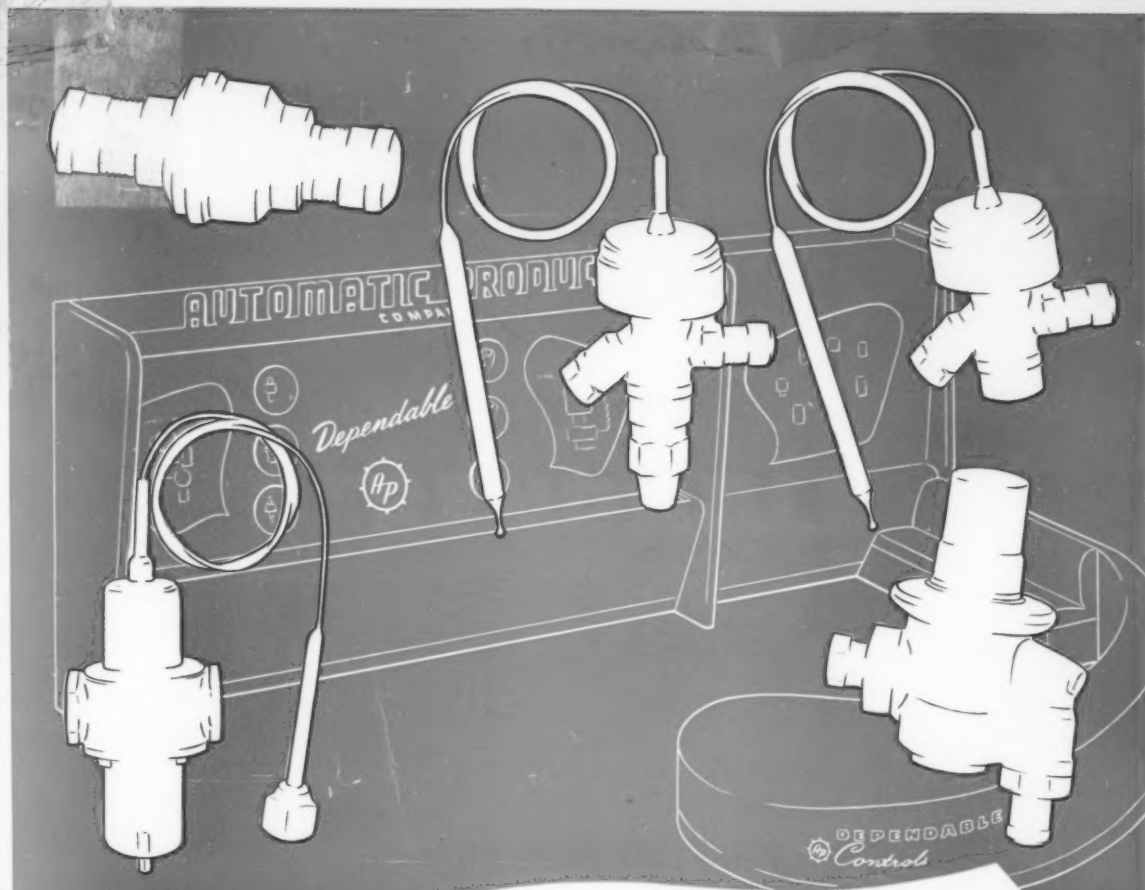
BRUNNER MANUFACTURING CO.

Utica 1, New York, U. S. A.



BRUNNER
SINCE 1906

AIR AND WATER COOLED MODELS
1/4 HP. TO 25 HP.



STOP Where Friends Gather...

at  **BOOTH NO. 504**

5TH ALL-INDUSTRY EXPOSITION • CLEVELAND • JANUARY 26 TO 29

See the great display of new developments in A-P DEPENDABLE Refrigeration Valves . . . Developments that will help you to improved refrigeration, simpler installation and servicing — greater customer satisfaction and steadier profits — during the years ahead.



Be sure to pick up your copy of the new A-P Condensed Catalog waiting for you at BOOTH 504.

AUTOMATIC PRODUCTS COMPANY

2486 NORTH THIRTY-SECOND STREET • MILWAUKEE 10, WISCONSIN
Export Department, 13 East 40th Street, New York 16, N. Y.



DEPENDABLE REFRIGERATION VALVES

STOCKED AND SOLD BY GOOD REFRIGERATION WHOLESALERS EVERYWHERE . RECOMMENDED AND INSTALLED BY LEADING REFRIGERATION SERVICE ENGINEERS

Pardon our Pride...

... but we are mighty pleased to be able to tell you that this is the largest issue of **THE REFRIGERATION INDUSTRY** magazine which ever has been published since the magazine was started four years ago.

112 pages—more than 30,000 copies. Frankly, we think that is quite an achievement for the newest (*but largest!*) publication in the field.

But while we take justifiable pride in our own part in this accomplishment, we want at the same time to once more publicly express our thanks to the advertisers who have so strongly supported our magazine and to the refrigeration supplies wholesalers who have so effectively distributed it. More clearly even than they themselves, perhaps, we realize how futile our own efforts would have been without their splendid cooperation.

So thanks again to all those who have helped **THE REFRIGERATION INDUSTRY** reach this new pinnacle of progress. It is our sincere hope that we may continue to grow by reflecting, both in circulation and editorial coverage, the needs of this vital and expanding industry.

The Refrigeration Industry

